The Communique

Presidency School of Computer Science & Engineering

&

Presidency School of Information Science

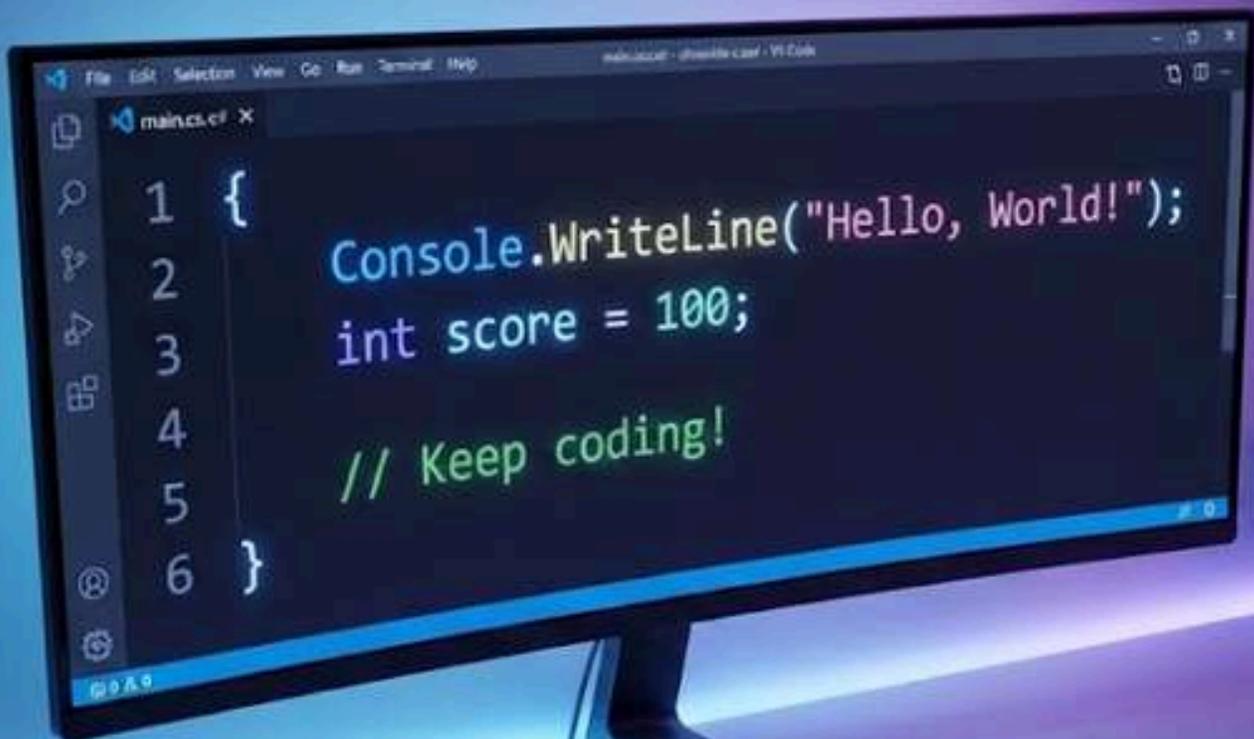## Code, Compute, Create – Empowering ideas through computation

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LETTER FROM THE EDITOR

From Insights to Impact—Lead the Change

Technology today is not just evolving—it is accelerating. Ideas that once took years to develop are now becoming realities in months, powered by code, data, and computation. In this rapidly transforming world, the ability to code, compute, and create has become the foundation of innovation.

This edition of The Communique, themed "Code, Compute & Create: The Engine of Innovation," explores how computational thinking is shaping the future. From artificial intelligence and intelligent systems to data-driven solutions and digital transformation, the articles in this issue reflect how technology is moving beyond tools to become a powerful driver of change.

True innovation, however, is not only about building smarter systems —it is about using technology with purpose, creativity, and responsibility. As students and future technologists, the challenge is not merely to write code, but to design solutions that solve meaningful problems and improve lives.

At the same time, the future of technology belongs to those who can think beyond boundaries and collaborate across disciplines. Innovation today emerges at the intersection of computing, creativity, and real-world problem solving.

By encouraging experimentation, research, and hands-on learning, institutions can nurture a generation of thinkers who are not only technically skilled but also capable of transforming ideas into impactful solutions.

Through this edition, we celebrate curiosity, creativity, and the courage to innovate. Let this be a reminder that every line of code has the potential to spark an idea, every computation can unlock new possibilities, and every creator has the power to shape the future.

The Editorial Board

FROM THE HELM

It is my privilege to present this edition of The Communique, themed "Code, Compute, Create – Empowering Ideas Through Computation." This theme highlights the transformative role of computation in shaping innovation and progress in today's digital era.

In a world driven by technology, computation has become a powerful enabler of ideas. From artificial intelligence and data science to smart applications and digital platforms, the ability to code, analyze, and build intelligent systems allows individuals to turn creative concepts into meaningful solutions. Computational thinking not only enhances problem-solving skills but also encourages innovation across disciplines.

India continues to emerge as a global leader in digital transformation, with strong initiatives promoting technology, research, and innovation. The growing focus on computing, artificial intelligence, and emerging technologies is creating new opportunities for young minds to explore, experiment, and contribute to the evolving digital landscape. Educational institutions play a vital role in nurturing this transformation. Universities are not only centers of knowledge but also spaces where ideas are shaped into impactful solutions. At Presidency University, we are committed to fostering a culture that encourages coding, computational thinking, creativity, and innovation. By empowering students with these skills, we aim to prepare them to address real-world challenges and contribute meaningfully to society.

This edition of The Communique reflects that spirit of exploration and creativity. It brings together ideas, achievements, and perspectives that demonstrate how computation empowers imagination and innovation. As we continue to code, compute, and create, may we harness the power of technology to inspire progress, transform ideas into reality, and shape a better future.

Best Regards,

Prof. (Dr.) S. Sivaperumal
B.E. (ECE), M.E. (VLSI), Ph.D. (Control Systems), Ph.D. (Communication Systems), FIE., FIETE., SMIEEE., MISTE.
Pro-Vice Chancellor
Director – International Relations
Professor – Electronics and Communication Engineering
Presidency University, Bengaluru

FROM THE HELM

I am pleased to present this edition of The Communique, centered around the theme "Code, Compute & Create: The Engine of Innovation." In today's rapidly evolving digital landscape, innovation is driven not only by technological advancement but also by the curiosity, collaboration, and creativity of those who engage with it.

Universities play a vital role in nurturing this spirit of exploration. They provide an environment where students are encouraged to experiment with ideas, develop practical solutions, and work collaboratively to address real-world challenges. Such experiences help transform learning into innovation and prepare students to contribute meaningfully to a technology-driven society.

At Presidency University, the School of Computer Science and Engineering and the School of Information Science are committed to fostering a culture of inquiry, innovation, and continuous learning. Through research initiatives, student-led activities, technical events, and collaborative projects, we aim to create opportunities for students to explore emerging technologies and translate knowledge into impactful outcomes.

As technology continues to evolve, the ability to adapt, learn, and innovate becomes increasingly important. Encouraging students to think critically, explore emerging ideas, and collaborate across disciplines helps build a strong foundation for future advancements. By creating opportunities for experiential learning and creative exploration, institutions can inspire students to transform knowledge into solutions that contribute meaningfully to technological progress and societal development.

This edition of The Communique reflects the vibrant academic and creative energy of our community. I invite you to explore these pages and celebrate the ideas, initiatives, and achievements that continue to strengthen our journey of learning and innovation.

Best Regards,
Prof. (Dr.) N. Duraipandian M.E.,Ph.D.,
Dean - Presidency School of Computer Science and Engineering
& Information Science
Presidency University, Bengaluru

THE COMMUNIQUE

THE TEAM

The essence
and
The spirit
That breathe
Life into it all.

DR. R. MAHALAKSHMI
EDITOR -IN-CHIEF

MS. NEHA ARORA
EDITOR

MS. DEVI S
EDITOR

DR. SRABANA PRAMANIK
SUB EDITOR

School of Computer Science & Engineering and School of Information Science wishes a Happy Women's Day 2026

Happy International

WOMEN'S DAY

HAPPY WOMEN'S DAY TO ALL THE INSPIRING WOMEN AROUND US,
AND SINCERE THANKS TO THE MEN WHO SUPPORT AND RESPECT THEM EVERY DAY.
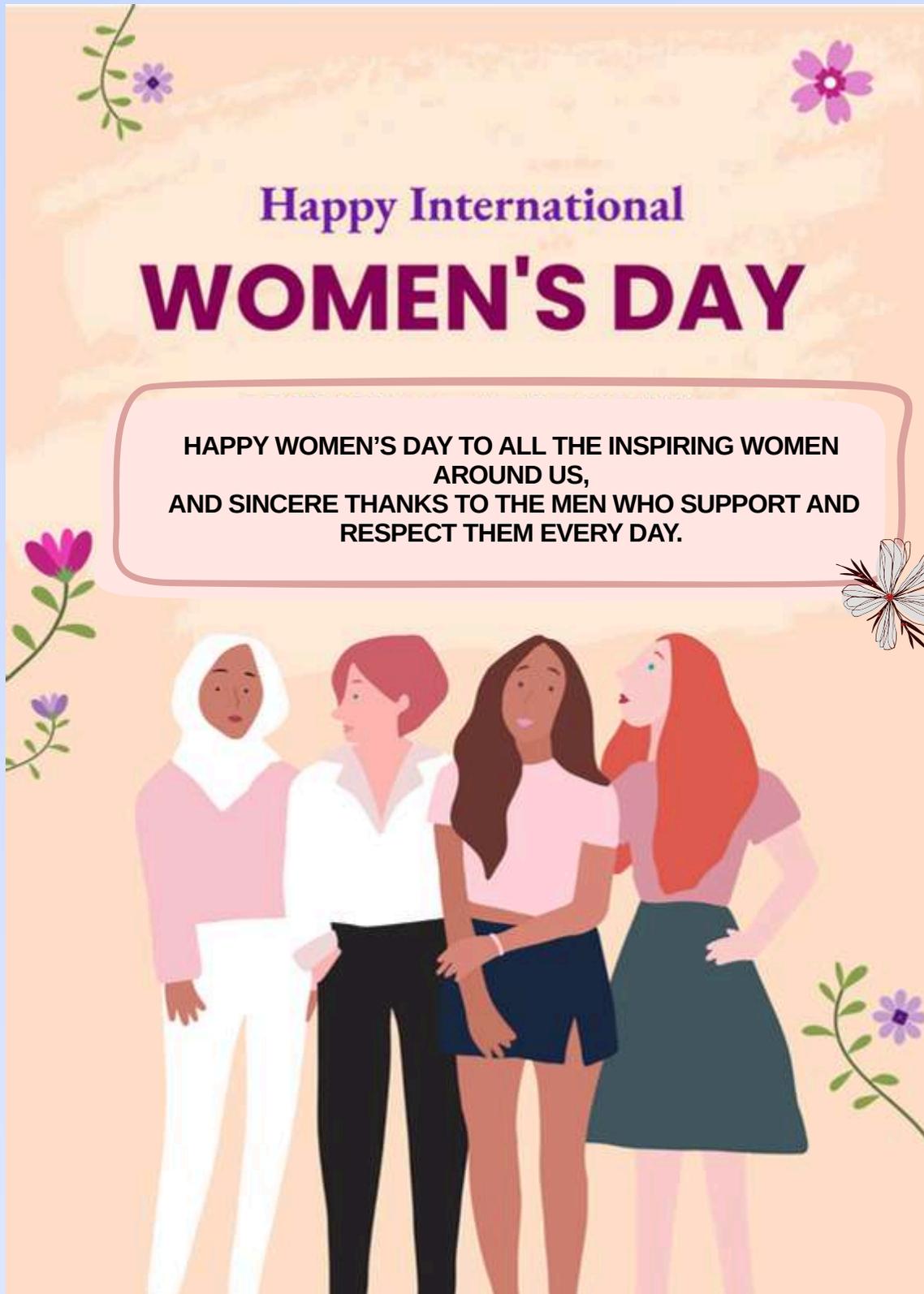
The Continuum of Intelligence

Abstract

From a centralized cloud utility, modern computation has developed into a ubiquitous continuum that spans Cloud, Fog, and Edge layers. In order to facilitate the smooth migration of logic, this article discusses how containerization, more especially, Dockers, acts as the unifying fabric across these layers. We observe that by integrating robust security protocols into these portable units, we can empower a paradigm where a code is no longer static, but a dynamic force that creates innovation by computing exactly where the data originates.

Introduction: The Logic of Convergence

Decomposing complex problems into executable code is the first step in the logic to Innovation journey. However, the true empowerment of Ideas occurs when this code is deployed across a distributed architecture, that is possible through following:

- Edge Layer: Provides sub-millisecond latency for real-time Creation (e.g., autonomous response).
- Fog Layer: Acts as the connective tissue, aggregating data from multiple edge nodes for regional coordination.
- Cloud Layer: The brain for extensive model training and long-term storage.

Dockers & Containers: The Vehicle of Innovation

A lightweight, standardized vehicle is needed to transport logic across the Cloud-to-Edge continuum. device heterogeneity is resolved by Docker containers. By encapsulating the runtime environment, containers ensure that code developed in a high-compute Cloud environment runs identically on a resource-constrained Edge device. The foundation of computational empowerment is portability, which enables researchers and students to create without being constrained by underlying infrastructure.

Security: Protecting the Creative Process

In a Compute model that is dispersed, the attack surface grows. Security needs to be Integrated, not Appended as follows:

- Isolation: "Sandbox" security isolation offered by containers shields the host node from harmful code.
- Integrity: By using Prometheus for real-time monitoring, the Logic is kept intact while it moves through the fog.
- Encryption: By employing identity managers (such as Keyrock) to secure communication between IoT edges and the cloud, private data processing at the edge is guaranteed to remain private.

Discussion: From Computation to Creation

Applying computational thinking to real-world phenomena leads to innovation. Students can transition from memorization to programming actualization by utilizing the NVIDIA and IoT laboratories. It is possible to create a smart-surveillance system that functions even in the event of an internet outage, for example, a Logic for picture recognition can be Computed at the edge.

Conclusion

The Continuum holds the key to the future of information science. By figuring out how Cloud, Fog, and Edge interact and protecting the code inside containers, we can offer the compute capability required to transform abstract logic into societal Innovation. Our department's goal of empowering ideas through cutting-edge, industry-aligned computation can finally come to fruition.

Dr. Gopal Krishna Shyam
Prof & HOD, PSCS
Presidency University, Bengaluru

CODE COMPUTE CREATE

Artificial Intelligence has become an integral part of coding. From generating basic program to debugging programs, AI tools can write code in seconds. However, here is a question every budding programmer must ask

"Are we using AI as our assistant, or are we becoming assistants to AI?"

AI is powerful. It is fast. It is impressive. But it is not infallible. As coders, our responsibility is not to copy and paste blindly. Our responsibility is to think, analyze, verify, and improve. AI should support our thinking skill and not to replace it.

Let look into the following python program to check whether a number n is an integer multiple of another number m.

The function should:
- Return True if n is a multiple of m
- Return False otherwise

Example cases:
- is_multiple(10, 5) → True
- is_multiple(10, 0) → False

Looks simple, right?

When asked to generate the solution, the AI produced:

return n % m == 0

At first glance, this seems perfectly correct.

For example:
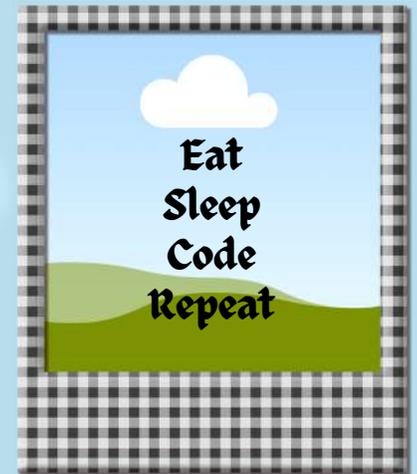- 10 % 5 equals 0
- 0 == 0 → True

So far, everything works.

But what happens when we test:

is_multiple(10, 0)

Suddenly, the program crashes with a ZeroDivisionError.

Why? Because Python does not allow modulus operation with zero. The AI-generated code did not handle this edge case. This is where critical thinking matters.

AI ignored the fundamental programming rule and AI solution was incomplete.

Instead of blindly trusting the AI, we analyze the logic ourselves. Before computing n % m, we must ensure that m is not zero. A safer implementation would be:

```python
def is_multiple(n: int, m: int) -> bool:
    if m == 0:
        return False
    return n % m == 0
```

The future belongs to programmers who know how to collaborate with AI intelligently. Use AI as a tool, Use AI as a helper, Use AI as an accelerator. But never let AI do your thinking for you. Because at the end of the day, a true coder does not just write code, a true coder understands it.

Dr. S Sivaramakrishnan
Associate Professor, PSCS
Presidency University, Bengaluru

CODE, COMPUTE, CREATE: WHERE CURIOSITY BECOMES CAPABILITY

What begins as a simple question, "How does this work?" often marks the first step into the world of computer science. Behind every line of code lies not just logic, but curiosity, not just computation, but creativity. Code, Compute, Create is more than a slogan, it is the rhythm that drives innovation in the digital age. Coding teaches us to think precisely, yet imaginatively.

A program is not merely a set of instructions for a machine; it is a structured expression of human thought. When we write code, we learn to decompose complex problems, recognize patterns, and design elegant solutions. Each algorithm becomes a quiet conversation between the human mind and the computer, one asking questions, the other responding with speed and accuracy. Computation transforms ideas into impact. Data, when processed intelligently, tells stories we cannot see with the naked eye.

"Just keep coding. We can always fix it later."

From predicting climate patterns to visualizing social networks, computation empowers us to explore the unseen and make informed decisions. It encourages students to ask deeper questions: What can data reveal? What remains hidden? How can technology amplify understanding rather than obscure it?

Creation is where knowledge meets purpose. Modern computer science is not confined to screens and servers; it shapes healthcare, education, communication, and sustainability. When students build an app, train a model, or design a system, they are not just completing an assignment, they are creating possibilities. Each project becomes an experiment, each error a lesson, each success a spark for the next idea. Perhaps the most powerful aspect of computing is its openness to curiosity. A single line of code can lead to endless exploration. Why does this algorithm scale? What happens if we change this parameter? Can this solution be made simpler, or more beautiful? Such questions keep the discipline alive and evolving.

In a world driven by technology, computer science is not just about machines; it is about mindset. To code is to question. To compute is to reason. To create is to imagine a better future and then build it.

Dr. Divyashree D
Assistant Professor, PSIS
Presidency University, Bengaluru

From Ideas to Impact: The Power of Computation

The world doesn't change because of ideas alone. It changes because someone builds them into existence. Code is where imagination materializes. It is where vision stops being conceptual and starts becoming something people can see, use, and experience.

Computation has become the foundation of the modern world. From the smartphone to the systems controlling transport systems, health services, and communication systems, it remains foundational to the modern world. Evidently, the underlying code and application of these systems can all be traced back to the application of human logic to solve complex problems.

The real strength of computation lies in its ability to turn ideas into scalable solutions. A small piece of code can run millions of times, transforming simple concepts into systems that impact people worldwide.

To compute is to amplify. Transforming a single idea into millions converts raw data into understanding, chaos into clarity, and vision into action. Within every smart system, every digital encounter and every significant innovation lies a creator who decided to construct.

Technology is more than just a set of tools; it is a discipline of intent. It demands us to critically analyse, to bravely question assumptions and clutch the will to create. It allows us to recognize patterns, address important problems, and transform limitations into opportunities with careful planning and implementation.

In the end, it becomes a force that gradually reshapes what is possible when used by people who are willing to build. That is the power of computation; turning bold ideas into lasting impact.

Dr. Vijayalakshmi P
Professor, PSIS
Presidency University, Bengaluru

Human Ideas, Machine Power: The Rise of Computational Creation

Code Is No Longer Just Code

Coding has evolved from rigid machine instructions into a creative engine for innovation. Today, computation powers intelligent systems, digital design, scientific discovery, and scalable solutions. This shift has introduced **computational creation** - transforming human ideas into impactful outcomes through algorithms, data, and automation.

From Programming to Problem-Solving

Modern computing prioritizes solving real-world challenges over writing syntax. With AI frameworks, cloud platforms, and open-source tools, innovators rapidly prototype and deploy complex systems. Engineers, researchers, educators, and entrepreneurs now leverage computation to convert concepts into functional, real-world solutions.

Computational Thinking: A Core Skill

Computational thinking — decomposition, abstraction, pattern recognition, and algorithm design — enables structured innovation. It supports system modeling, automation, scalable architectures, and data-driven decision-making. Rather than limiting creativity, it provides clarity and efficiency in developing effective solutions.

Artificial Intelligence as a Creative Partner

AI enhances both creativity and productivity by analyzing data, generating content, and supporting intelligent decision-making. Generative AI accelerates prototyping, automates development tasks, and personalizes digital experiences. Human expertise remains central in defining objectives, ensuring ethics, and guiding meaningful outcomes.

Impact Across Domains

Computational creation is transforming:

```
if (brain!=empty)
{
    keepCoding( );
}
else{
    orderCoffee( );
}
```

- **Education:** Adaptive learning and AI-driven assessment.
- **Healthcare:** Medical imaging and predictive diagnostics.
- **Creative Media:** Algorithmic design and digital storytelling.
- **Industry:** Automation and intelligent analytics.
- **Scientific Research:** High-performance simulations and discovery.

Across sectors, computation amplifies human capability and accelerates innovation.

Challenges and Future Directions

Key concerns include data privacy, algorithmic bias, intellectual property, and ethical AI deployment. Emerging technologies - Edge AI, quantum computing, immersive environments, and human–AI collaboration tools - will further expand computational creation, demanding interdisciplinary skills and responsible design.

Conclusion

Computational creation reflects a shift from machines as tools to machines as collaborators. By combining human creativity with machine intelligence, innovators can design scalable, ethical, and impactful solutions. The future belongs to those who think creatively, compute intelligently, and innovate with purpose.

Mr. Santhosh Kumar K L
Assistant Professor, PSCS
Presidency University, Bengaluru

Code, Compute, Create: Empowering Ideas Through Computation

We are living through a quiet inversion. Ideas are no longer scarce; execution bandwidth is. In this reality, computation is not "technology support." It is the literacy of agency. The ability to translate intent into outcomes, fast, repeatable, measurable, now sits at the centre of every serious institution, startup, and student journey.

Code is where clarity begins. Not because everyone must become a software engineer, but because coding teaches a discipline the modern world rewards: converting ambiguity into steps. It turns "I have an idea" into "Here is the logic, the flow, the constraints, the test." Coding is structured thinking made visible. It trains you to model the world as systems, decisions, and trade-offs. It also trains humility, because the code either works or it does not. That feedback loop builds rigor.
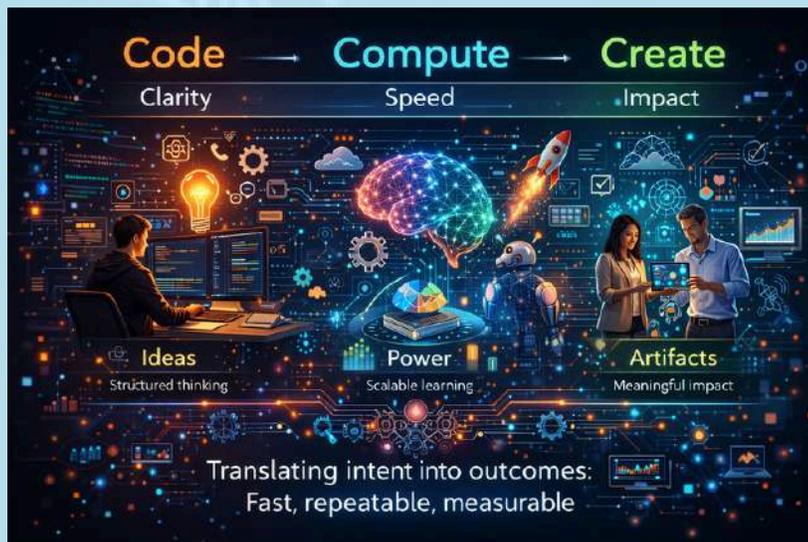
Compute is the multiplier. Cloud, GPUs, and modern AI platforms have made power scalable and on-demand. Yet compute is not only speed; it is iteration capacity. When experimentation becomes affordable, learning accelerates. When learning accelerates, innovation stops being a lucky breakthrough and becomes a designed system: hypothesis, prototype, feedback, refinement. Compute enables simulation before construction, validation before rollout, and stress-testing before scale. It compresses the distance between intent and evidence.

Create is the proof of competence. In an AI-shaped market, credibility increasingly comes from artifacts: demos, dashboards, agents, models, simulations, designs, products. Creation is where talent becomes trust. Trust is what converts a portfolio into opportunities, a lab into a venture, and a campus into an ecosystem. Creation also demands taste and responsibility. What you build must be useful, safe, inclusive, and explainable enough to earn adoption.

The strategic question for education and industry is no longer "**Are we teaching tools?**" It is: **Are we building builders?** People who can move from problem to prototype, from concept to pilot, and from curiosity to capability. This is also where institutions can lead with intent: maker cultures, challenge-based learning, shared compute access, mentorship networks, and pathways that reward outcomes.

Code gives a language. Compute gives leverage. Create gives impact. When these three come together, computation stops being a department and becomes a culture that empowers ideas to move, matter, and multiply.

Dr. Sagar Gulati
Director, School of Computer Science & IT
Jain Deemed to be University, Bengaluru

Coding in the Age of AI: Insights from Global Tech Leaders

MATTHEW PRINCE
CEO OF CLOUDFLARE

" People who *understand coding* will be far better leaders across a whole bunch of disciplines, even in a world where *AI is doing more of the coding.* "
— Matthew Prince

" If you *understand coding,* you're going to be much better at making *decisions* in *cybersecurity,* you're going to be much better at being able to *lead engineering teams,* and you're going to be able to really be effective in *large-scale IT environments.* "

CODING KNOWLEDGE IS STILL ESSENTIAL IN THE AGE OF AI

SATYA NADELLA
CEO OF MICROSOFT

" Having some *understanding of coding* is going to be helpful to think about novel concepts, new ideas. "
— Satya Nadella

" Learning *computational thinking* and skills like *prompt engineering* will be essential. "
— Satya Nadella

" AI can make it easier to write code, but you *still* have to tell the computer what to do and how to do it. "
— Satya Nadella

CODING FUNDAMENTALS & COMPUTATIONAL THINKING REMAIN VITAL IN THE ERA OF AI

As Artificial Intelligence continues to transform technology, coding remains a vital skill for innovation and leadership. Understanding programming helps develop logical thinking, problem-solving abilities, and creativity. Tech leaders emphasize that even in an AI-driven world, strong coding fundamentals enable individuals to guide technology, make informed decisions, and shape the future of digital innovation.

JENSEN HUANG
CEO OF NVIDIA

" In the future, **Coding** is like "programming a person." "

" You'll use natural language to tell the computer what you want it to do. "

THE FUTURE OF CODING

Mr. Krishna Mishra
Assistant Professor, PSIS
Presidency University, Bengaluru

Unknown Truths Behind Popular Programming Languages

Python

Named After a Comedy Show :

Python was named after the British comedy show, not the snake. The creator, Guido van Rossum, wanted a simple and fun name for the language. This is why Python examples often include humorous names like spam and eggs.

Python Has Secret Commands - 👉 **Type the following and see what happens:**

- import this → Displays The Zen of Python, which shows the philosophy and principles for writing simple and readable Python code.
- import antigravity → Opens a humorous comic in the web browser. It is a fun Easter egg included by Python developers.

📝 Note: import antigravity works in the command prompt (installed Python) but usually does not work in online compilers because they block browser access.

C Programming
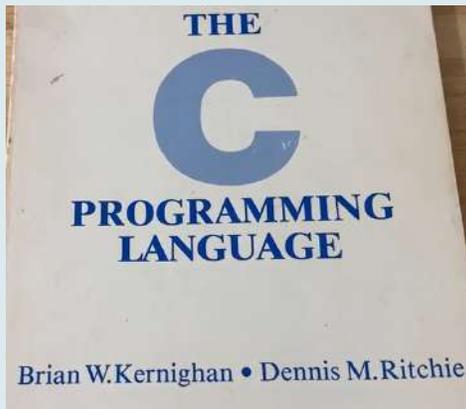
Index Can Be Written in Reverse 🤯
👉 Type the following and see what happens:

```
#include <stdio.h>

int main() {
    int a[] = {10, 20, 30};
printf("%d", 1[a]);
    return 0;
}
```

In C, array indexing can be written in reverse. Both a[1] and 1[a] give the same result.

Semicolon Can Create an Empty Program

```
 #include <stdio.h>
int main() {
  if(5 > 2);
   {
printf("This always runs");
  }
}
```

A semicolon after if ends the condition immediately.

**The Editorial Board
The Communique**

Coding as Critical Financial Infrastructure

In the banking industry, software is not merely a product, it is critical financial infrastructure. Every transaction processed, every fraud rule evaluated, every compliance report generated is powered by code. A minor defect in logic can lead to financial loss, regulatory penalties, reputational damage, or systemic instability.

Unlike experimental applications, banking systems operate at massive scale, under strict regulatory frameworks, with near-zero tolerance for failure. In such an environment, coding demands discipline, accountability, and deep cognitive engagement. This professional state of focused engineering is often described as 'vibe coding', is a state where the developer is fully aligned with the system's logic, risks, and responsibilities.

What Vibe Coding Means in Banking IT

In banking technology, vibe coding refers to a disciplined state of immersion where engineers:

- Understand complex business logic such as transaction lifecycles, settlement rules, and risk validations.
- Align technical architecture with compliance and audit requirements.
- Anticipate downstream system impacts across integrations.
- Write predictable, traceable, and resilient code.

This mindset is essential when working on payment processing engines, core banking integrations, fraud detection platforms, regulatory reporting systems, and high-availability APIs. Here, coding is not about speed, but it is about precision.

Engineers must ensure:
- *Deterministic behaviour under heavy load.*
- *Data integrity across distributed transactions.*
- *Idempotent operations in retry scenarios.*
- *Secure handling of sensitive customer information.*
- *Complete logging and traceability for regulatory audits.*

Vibe coding enables developers to slow down mentally while moving forward technically, reasoning through edge cases and failure scenarios before they become production incident

Vibe Coding vs Mechanical Coding in BFSI
Mechanical coding is writing code by copying patterns without understanding system implications, it poses serious risks in financial environments. It often results in fragile integrations, poor exception handling, hidden performance bottlenecks, and compliance gaps.

Vibe coding emphasizes intentional design, defensive programming, clear ownership of logic, and maintainability over shortcuts. In banking IT, this distinction determines whether systems withstand real-world stress or collapse under transactional pressure.

Incident Resolution: Where the Mindset Is Tested

Production incidents in banking transaction failures, reconciliation mismatches, latency spikes, or fraud-rule misfires require calm analytical discipline. There is no room for guesswork. Engineers operating in a vibe coding state methodically analyze logs, reconstruct execution paths, validate assumptions with data, and identify root causes instead of applying temporary patches. This structured flow prevents cascading failures and ensures long-term system stability.

Vibe Coding in the Age of AI-Assisted Development

AI tools can generate code, suggest refactoring, and accelerate testing. However, in regulated financial environments, accountability cannot be automated. AI-generated logic must be reviewed, validated against compliance standards, and evaluated for security and performance implications. Vibe coding ensures that AI acts as an accelerator, not a substitute for engineering judgment. Responsibility for financial systems always rests with the human architect.

Guidance for Emerging Banking Technologists

For students and early-career professionals aspiring to work in banking IT, cultivating this mindset early is critical. Transitioning from academic coding to enterprise financial systems requires structured thinking, documentation discipline, and respect for regulatory boundaries. Organizations value engineers who think deeply, communicate clearly, and deliver responsibly. Vibe coding builds technical credibility and professional trust.

Conclusion: Focus as a Competitive Advantage

In banking IT, technology stacks evolve and digital transformation accelerates. Yet one principle remains constant, focused, accountable engineering drives resilient systems. Vibe coding transforms coding from task execution into engineering judgment. It is not about writing more code; it is about writing code with clarity, foresight, and responsibility.

In financial systems, vibe coding is not a trend. It is a professional obligation.

Mr. Ravichandran Balashanmugam
Vice President, Bank of America,
Texas, United States

The Insight Exchange : Thinking Beyond Syntax

The Art Beyond Code

Programming is often seen as a technical skill — a world of brackets, loops, and syntax errors. Yet, beneath those lines of code lies a deeper dimension of creativity and problem-solving.

"Thinking Beyond Syntax" is about moving past the mechanical aspects of programming to embrace the mindset that drives innovation. It reminds us that technology is not just about writing code that works — it's about designing solutions that make a difference.

💡 Syntax builds structure, but imagination builds impact.

1. From Syntax to Systems Thinking

Most programmers begin by learning syntax — the grammar of programming languages. But real-world problem-solving requires something more profound: systems thinking.
Instead of focusing on how to write code, systems thinking asks why we are writing it and what outcome it serves. It's about understanding the larger context — the users, the data, the workflow, and the impact.
Example:
- Syntax: Writing a "for" loop correctly.
- Thinking Beyond Syntax: Designing an algorithm that efficiently processes massive datasets while minimizing memory usage.
-

Illustration Idea #1 — "The Layers of Programming"

A layered diagram showing -->

Innovation & Impact   *Thinking*
Logic & Design   *Algorithms*
Syntax & Code   *Implementation*

Syntax is the foundation; thinking is the architecture.

2. Logic, Creativity, and Empathy in Code

When we move beyond syntax, coding becomes a creative process — much like art or design. Logic and creativity intertwine to produce elegant solutions. But there's another critical layer — empathy.

Understanding the user's perspective, anticipating needs, and designing inclusive interfaces are all acts of empathy. A good coder doesn't just write efficient code — they build experiences that people love to use.

Illustration Idea #2 — "The Triangle of Innovation"

Creativity

Logic   Empathy

Innovation happens where logic meets empathy and creativity.
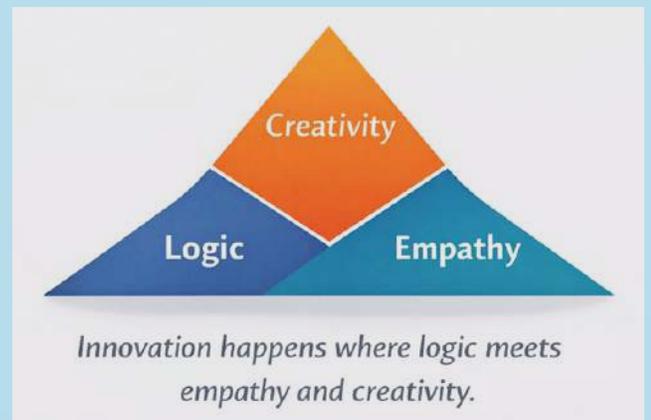
3. The Mindset Shift: From Syntax to Solutions

Illustration Idea #3 — "The Evolution of a Coder"

Learning syntax is essential — it's our toolkit like how we learn Mathematics Formula. But thinking beyond syntax means asking the right questions before writing a single line of code:

- What problem am I solving?
- Who will use this solution?
- How can I make it scalable and sustainable?
- Can I improve this process using automation or AI?
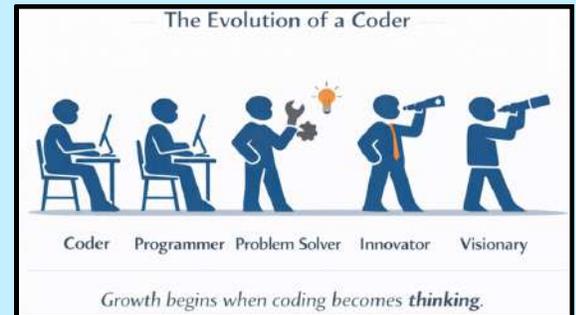
This shift from "code that runs" to "solutions that matter" is what defines a true innovator. It transforms programmers into thinkers, analysts, and creators of change.

4. Thinking Beyond Syntax in the Real World

This mindset is reflected in some of the most transformative technologies today:
- AI & Machine Learning: Understanding data ethics, model design, and interpretability beyond algorithms.
- Sustainable Tech: Using code to build green solutions, optimize energy, and reduce digital waste.
- Human-Centred Design: Blending psychology, technology, and art to enhance user experience.

In each of these domains, success depends not just on writing correct syntax, but on thinking critically, ethically, and creatively.

5. The Future Belongs to Thinkers

Tomorrow's world will belong to those who can connect technology with purpose. To those who think beyond lines of code and see patterns, possibilities, and problems waiting for elegant solutions. Thinking Beyond Syntax is a call to every student, developer, and dreamer to go beyond what is taught — to explore how ideas can become innovations through thoughtful design and computation.

"Don't just write code that works — write code that make wonders."

Conclusion: The Human Side of Coding At its heart, programming is about translating thought into creation. Syntax may define the boundaries of a language, but imagination breaks those boundaries.
When we start thinking beyond syntax, we discover that coding is not just a technical pursuit — it's a creative, human, and transformative art form.

Ms. Jennifer Mariasoosai
Associate Director | Project Management
Volante Technologies

INDUSTRY PULSE

CODE, COMPUTE & CREATE: THE ENGINE OF INNOVATION

MR. BALAGANESH S →

WHERE INDUSTRY EXPERTISE MEETS EDUCATIONAL INNOVATION.

Business Unit Head – Global IT Services Company, India

In an era defined by rapid technological change, computation is no longer just a technical skill — it is the foundation of innovation. From AI and cloud computing to smart cities and fintech platforms, computation is reshaping how we live, learn, and lead.

As we embrace the theme "**Code, Compute & Create**," we must understand that computation is not merely about writing code - it is about transforming ideas into impact.

Computation: The Engine of Innovation

Computation powers:

- Artificial Intelligence & Machine Learning
- Cloud-native applications
- Smart healthcare diagnostics
- Financial fraud detection systems
- E-commerce personalization engines
- Automation & robotics

As Satya Nadella said:

"**Every company is now a software company. Technology is no longer a support function - it is strategy.**" Technology is no longer optional. It defines competitive advantage."

Beyond Coding: The Power of Computational Thinking

Coding is important. But computational thinking is transformative.

Students must learn to:

- Break down complex problems
- Recognize patterns
- Design efficient algorithms
- Optimize resources
- Make data-driven decisions

As Sundar Pichai said:

"AI is one of the most profound things we're working on as humanity."

To harness such transformative technology, students must develop analytical depth — not just programming ability.

Bridging the Academia–Industry Gap

Despite progress, a gap still exists between academic learning and industry expectations.

Common Gaps:
- Theoretical knowledge without deployment experience
- Individual assignments instead of collaborative projects
- Small-scale programs instead of scalable systems

Practical Solutions:

- Real-world project integration
- Git-based collaborative development
- Cloud and DevOps exposure
- Industry mentor reviews

As Elon Musk famously stated:

"You get paid in direct proportion to the difficulty of the problems you solve."
Students must be trained to solve meaningful, real-world problems — not just complete assignments.

Preparing for an AI-Driven Future

Automation is reshaping industries. Institutions must therefore focus on:
- AI literacy across disciplines
- Ethical and responsible technology use
- Interdisciplinary innovation
- Creativity and critical thinking
- Entrepreneurial mindset development

Students should constantly ask themselves:

- Who benefits from my solution?
- Does my code solve a real-world problem?
- Can this idea scale into a product or startup?
-

As Andrew Ng said:

"AI is the new electricity."
Just as electricity transformed every industry, AI will redefine every profession.

The Role of Industry–Academia Collaboration

Strong collaboration between academia and industry can transform learning into impact.

Key initiatives include:

- Live industry problem statements
- Research collaborations
- Innovation labs
- Hackathons and coding competitions
- Faculty upskilling programs

When students work on real-world challenges, learning becomes experiential, practical, and powerful.

Conclusion

1. Computation empowers ideas.
2. Ideas drive innovation.
3. Innovation transforms society.

The future belongs to those who can combine logic with creativity and data with purpose. Let us code with curiosity, compute with clarity, and create with courage. As the great Tamil poet Avvaiyar said 2000 years before reminds us and it more relevant to IT Professional today & future

"What we have learned is like a handful of sand; what we have yet to learn is as vast as the world."
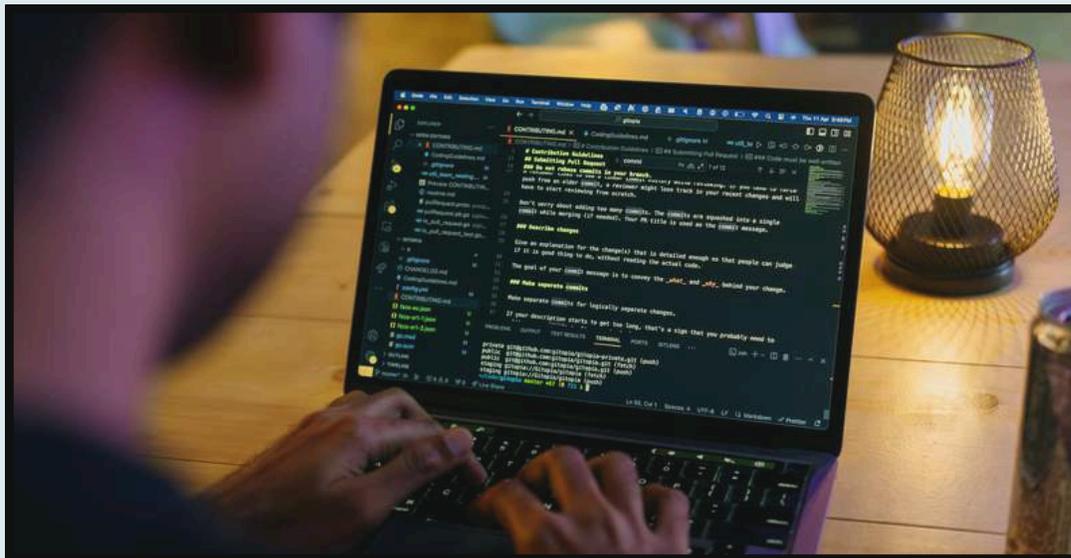
Mr. Balaganesh is a seasoned technology leader with over 30 years of experience in project delivery, product engineering, and strategic operations. He has led global teams of over 1,500 professionals, managing large-scale programs, P&L responsibilities, and driving business growth across geographies.

Insights By,

Mr. Balaganesh,
Business Unit Head – Global IT Services Company, India

Research Frontiers

Ms. S. Vanitha presented her research paper titled 'Coronary Artery Disease Diagnostics by Applying CNN and Segmentation Techniques' at the 2025 IEEE 3rd International Symposium on Sustainable Energy, Signal Processing & Cybersecurity (ISSSC-2025) held at GIET University, Odisha.

Ms. S. Vanitha
Assistant Professor

Mr. Kumaravel T published a research paper titled 'Optimized YOLOv7 Framework for Skin Cancer Detection using Cuckoo Search and Pelican-Based Hyperparameter Tuning' in the IEEE International Conference on Intelligent Innovations in Engineering and Technology (ICIIET 2025).

Mr. Kumaravel Thangavel
Assistant Professor

Dr. Kimmi Kumari published a research paper titled 'A Blockchain–IoT–Edge Framework for Real-Time Patient Data Privacy and Management' in the IEEE 2nd Asia Pacific Conference on Innovation in Technology (APCIT 2025), Mysore.

Dr. Kimmi Kumari
Assistant Professor-Senior Scale

Mr. B. Jai Kumar presented a research paper titled 'Computing and Green IT Trends in Quantum Era' at the AICTE Sponsored International Conference on Computing Business Intelligence and Engineering Technologies (ICCBIET'25) held at Knowledge Institute of Technology, Salem.

Mr. Jai Kumar B
Assistant Professor

Mr. Himanshu Sekhar Rout has published a research paper titled 'Diabetic Retinopathy Detection and Grading: A Comparative Survey of Existing Techniques' was published in the IEEE International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity (ISAC3 2025), highlighting AI-based approaches for early detection of diabetic retinopathy."

Mr. Himanshu Sekhar Rout
Assistant Professor

Research Frontiers

Dr. Riyazulla Rahman Jabiulla and Dr. Afroz Pasha published a journal paper titled 'NeuroFusionNet: A Multi-Modal Graph Transformer with Contrastive Alignment and Evidential Uncertainty for Epileptic Seizure Detection' in the journal Cybernetics and Information Technologies.

Dr. Riyazulla Rehman J.
Assistant Professor - Senior Scale

Dr. Afroz Pasha
Assistant Professor - Senior Scale

Dr. T. Lalitha presented a research paper titled 'A Study on Secure Hybrid Intelligent Ecosystem for Learning and Detection in Network Environments: SHIELD-NET' at the International Conference on Recent Trends in Engineering and Technology (ICRTET-2026).

Dr. T. Lalitha
Professor

Ms. Neha Arora authored a review paper titled 'A Comprehensive Survey on Federated Learning for Privacy Preservation in Digital Healthcare Applications' published in the Springer journal Knowledge and Information Systems (2026).

Ms. Neha Arora
Assistant Professor

Dr. Pakruddin B presented a research paper titled "Pomegranate Disease Detection using YOLOv12: A Deep Learning Approach Across Five Classes" at the 3rd International Conference on Emerging Computation & Information Technologies (ICECIT-2025), held at Siddaganga Institute of Technology, Tumakuru.

Mr. Pakruddin B.
Assistant Professor

Mr. Himanshu Sekhar Rout has published research paper on Spine Segmentation in X-Ray Images Using Lightweight ResUNet in the Springer Conference Proceedings Communication and Intelligent Systems (ICCIS 2024).

Mr. Himanshu Sekhar Rout
Assistant Professor

DEPT NEWS

Beyond Deadlines: A Wellness Pause for Faculty

The Presidency School of Computer Science and Engineering organized a Faculty Development Program titled "Beyond Deadlines: A Wellness Pause for Faculty" on 10 January 2026 at Seminar Hall 1, F Block, Presidency University. The program aimed to promote mental well-being, stress management, and work–life balance among faculty members, providing a valuable opportunity to pause and reflect amidst academic responsibilities.

The session was conducted by counselling psychologists Ms. N. Namratha Jessica and Mr. Vinod Chouhan, who shared insights on managing occupational stress, recognizing early signs of burnout, and building emotional resilience. Through interactive discussions and mindfulness practices, participants learned practical techniques to maintain mental clarity and enhance overall well-being.

The program was convened by Dr. Zafar Ali Khan, HOD (PSCS–CAI & RAI) and coordinated by Ms. Anupama M. Patil and Ms. Priyanki Dutta, Assistant Professors. The session was well received by faculty members and highlighted the importance of prioritizing mental health in academic environments.

DEPT NEWS

Inspiring Young Minds: Indian Navy Awareness Program at Presidency University

The Indian Navy Awareness Program, jointly organized by CCS, CIT, and the student community, was successfully conducted on 29th January 2026 at the F Block Seminar Hall. The event featured Captain Hemanth Kumar as the esteemed resource person, who delivered an inspiring and insightful session on the role of the Indian Navy in safeguarding the nation. Through compelling real-life experiences, he highlighted the values of discipline, leadership, patriotism, and the spirit of service that define naval life. His address emphasized the noble responsibility of serving the nation and the pride associated with wearing the uniform.

The session sparked immense curiosity and enthusiasm among students, leading to an engaging interaction filled with thoughtful queries on career pathways, eligibility criteria, training opportunities, and long-term growth within the Indian Navy. Students were deeply motivated by the Captain's message on national service and the diverse opportunities available in naval forces beyond conventional career choices. The event not only broadened students' awareness of defense careers but also instilled a renewed sense of purpose, national responsibility, and aspiration to contribute meaningfully to the country. This impactful initiative stands as a testament to the institution's commitment to nurturing informed, inspired, and nation-oriented future leaders.

DEPT NEWS

Technical Fest – TECHNOPIA 2026

The Presidency School of Computer Science & Engineering organized Technopia 2026 – Technical Fest on 23 January 2026 from 9:00 AM to 4:00 PM. The event was conducted in offline mode and witnessed enthusiastic participation from students of SOCSE. Technopia 2026 served as a vibrant platform for students to showcase their technical knowledge, creativity, and problem-solving skills through various competitions.

The fest featured engaging events such as Code and Solve Challenge, Poster Presentation, Technical Quiz, Prompt Engineering Battle, Tech Tambola, and Tech Debate. These activities encouraged innovation, teamwork, critical thinking, and effective communication among participants. The event concluded with a prize distribution ceremony, where cash prizes worth ₹18,000 were awarded to the winners.

The event was convened by Dr. Pallavi R, Professor & Head, Department of CSE, and coordinated by Dr. Poornima S and Ms. Shet Reshma Prakash, ensuring smooth execution and active student participation. Overall, Technopia 2026 successfully promoted experiential learning and strengthened the technical culture within the department.
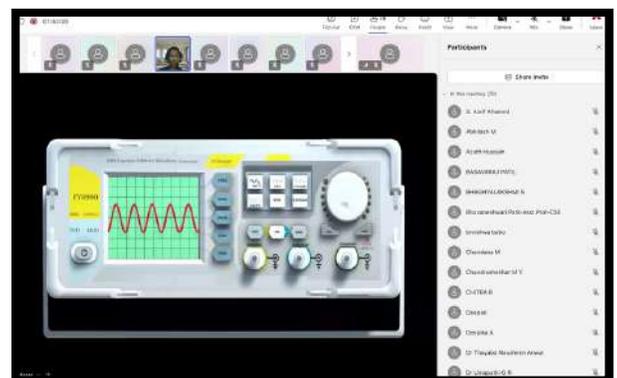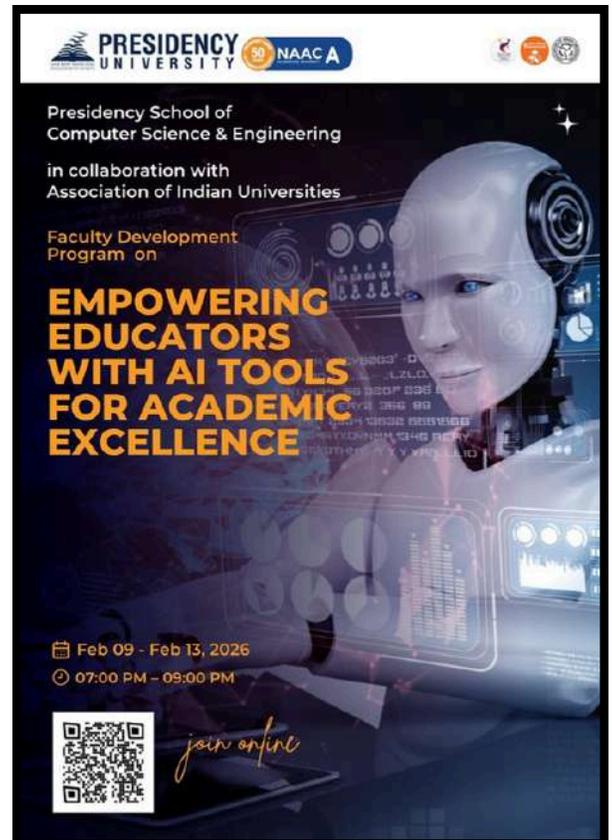
DEPT NEWS

FDP on Empowering Educators with AI Tools for Academic Excellence

The Presidency School of Computer Science and Engineering, in collaboration with the Association of Indian Universities (AIU), organized a Five-Day Faculty Development Program titled "Empowering Educators with AI Tools for Academic Excellence" from 9th to 13th February 2026 in online mode. The program aimed to equip educators with practical knowledge of Artificial Intelligence tools for teaching, assessment, research, and academic productivity.

The FDP featured eminent speakers from academia and industry who shared insights on integrating AI into education responsibly and effectively. Sessions covered topics such as AI in teaching and content development, AI-enabled assessment and academic integrity, research support using AI tools, and practical AI integration in academic workflows.

The program was convened by Dr. Asif Mohamed H. B., HoD PSCS, with faculty coordinators Dr. S. Aarif Ahamed and Dr. Taranath N. L. Participants gained valuable exposure to AI-driven educational practices, enabling them to enhance teaching effectiveness, improve research productivity, and adopt innovative digital pedagogy in higher education.

The initiative reinforced the university's commitment to promoting technology-enabled teaching and academic excellence in the evolving AI-driven educational landscape.

DEPT NEWS

Empowering Innovation: Design Thinking Workshop for Faculty

The Presidency School of Computer Science and Engineering organized a one-day workshop titled "Design Thinking Concepts and Case Studies: Mastering the Human-Centred and Iterative Approach to Innovation" on 31 January 2026 at F Block Seminar Hall – I, Presidency University. The workshop aimed to enhance faculty understanding of innovation methodologies and their application in teaching, research, and curriculum design.

The session was delivered by Dr. Mannava Munirathnam Naidu, Former Professor of Computer Science and Engineering at S.V. University College of Engineering, Tirupati. He shared valuable insights on the design thinking framework and its role in solving academic and research challenges through a human-centred and iterative approach.

The program was convened by Dr. Zafar Ali Khan, HOD (PSCS–CAI & RAI) and coordinated by Ms. Anupama M. Patil and Ms. Priyanki Dutta, Assistant Professors. The workshop provided faculty members with practical perspectives on integrating design thinking principles into teaching practices, research mentoring, and academic innovation.

Overall, the session encouraged faculty to adopt creative and structured approaches to problem-solving, fostering innovation within the academic ecosystem.

AI Impact Summit 2026 - Highlights

India AI Impact Summit 2026
Shaping AI For Humanity, Inclusive Growth & a Sustainable Future.

India's AI Moment is Here
$250B in Commitments. 88 Nations. 1 Mission.

$250B+ Investment Pledged

$15B Google Vizag Commitment

92 Nations signed the New Delhi Declaration

₹2,000 CRORE FOR INDIA'S AI FUTURE
Powering the Foundation Models Pillar

Key Stats:
12 Labs backed by the IndiaAI Mission | ₹2,000 Crore in Government Grants
Goal: Strategic Capability & Tech Independence

Keynote Speaker
BRAD SMITH
Vice Chair & President, Microsoft

https://impact.indiaai.gov.in/
For more details, scan this QR Code

Who is Ranvir Sachdeva, 8-year-old who became the youngest speaker at India AI Impact Summit 2026; He met with Google CEO Sundar Pichai, OpenAI's Sam Altman

TOI Tech Desk / TIMESOFINDIA.COM / Updated: Feb 22, 2026, 09:31 IST

Amidst a sea of global tech CEOs, leaders and senior policymakers at the India AI Impact Summit 2026, one speaker stood out – Ranvir Sachdeva, an eight-year-old coder who called himself a technologist. He became the youngest person to address the summit currently underway at Bharat Mandapam in New Delhi. Ranvir took stage to discuss how he is linking ancient Indian philosophies to modern-day Artificial Intelligence (AI).

"I'm here as the youngest keynote speaker at the India AI Impact Summit. I'm talking about how I'm linking ancient Indian philosophies to modern-day technologies. I'm also covering the different approaches which the rest of the nations are building AI with," Ranvir Sachdeva told news agency ANI.

"AI Summit Turning Point For How World Will Use AI": PM Modi In Mann Ki Baat

India hosted the AI Impact Summit 2026 in New Delhi from February 16-20, focusing on human-centric AI, global cooperation, and ethical frameworks like the New Delhi Declaration.

Indo-Asian News Service   India News   Feb 22, 2026 12:04 pm IST

Read Time: 3 mins

AI Impact Summit 2026 - Highlights

THE HINDU

HOME / SCI-TECH / TECHNOLOGY

Bill Gates pulls the curtains on AI Summit controversy, pulls out of keynote address

Hours before the scheduled speech, Gates Foundation announces decision, to ensure "focus" stays on AI Summit

Updated - February 19, 2026 11:01 pm IST - NEW DELHI

SUHASINI HAIDAR

READ LATER

Microsoft co-Founder Bill Gates. File | Photo Credit: Reuters

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BBC

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Long queues and confusion mar first day of India's landmark AI summit

17 February 2026

Share   Save

Meryl Sebastian

Getty Images

...he first major international AI meeting hosted in the Global South

...mit, billed as a landmark gathering of global leaders and ...was overshadowed by logistical chaos on its opening day in

...d about long queues, overcrowding and confusion at the venue, ...for hours. Some also reported limited access to food and water ...were stolen from their stall.

NBC NEWS

India's AI summit draws global leaders, big pledges and some chaos

The five-day event mixed long lines and viral mishaps with a serious pitch: The future of AI shouldn't be written only in Washington and Beijing.

The Assam Tribune

88 years of service to the nation

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SCI-TECH

After AI Impact Summit 2026, India signals shift to AI warfare

By The Assam Tribune - 5 Mar 2026 4:51 PM

THE HINDU

HOME / SCI-TECH / TECHNOLOGY

Nearly 85 countries sign New Delhi Declaration at AI Impact Summit

Declaration gets both the U.S. and China as signatories, along with the majority of government participants

Updated - February 21, 2026 09:23 pm IST - New Delhi

ARDON DEEP

READ LATER

UNWIND ZONE

Across:

1. Request for data from a database (5)
2. LIFO data structure (5)
3. Translates source code to machine code (8)
8. Abnormal program termination (5)
10. Lightweight data interchange format (4)
11. Process of fixing code errors (5)
12. Microsoft's object-oriented language (.NET) (6)
18. Data given to a program (5)
19. FIFO data structure (5)
20. Fast memory storing frequently used data (5)

Down:

4. Indexed collection of elements (5)
5. Blueprint for objects in OOP (5)
6. Repeats a block of code (4)
7. Organized arrangement of data (9)
9. Instance of a class (6)
13. Modern systems programming language (4)
14. Scripting language for text processing (4)
15. Keyword returning value from a generator (5)
16. JVM-based programming language (5)
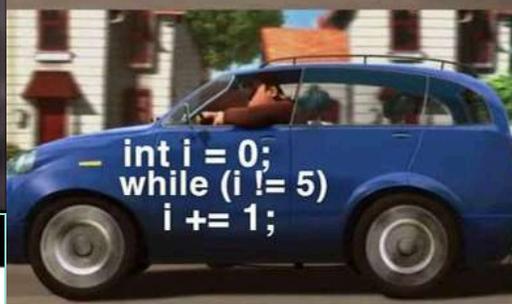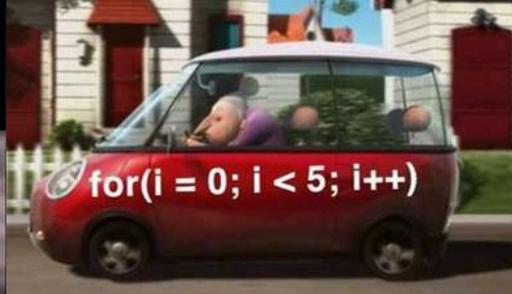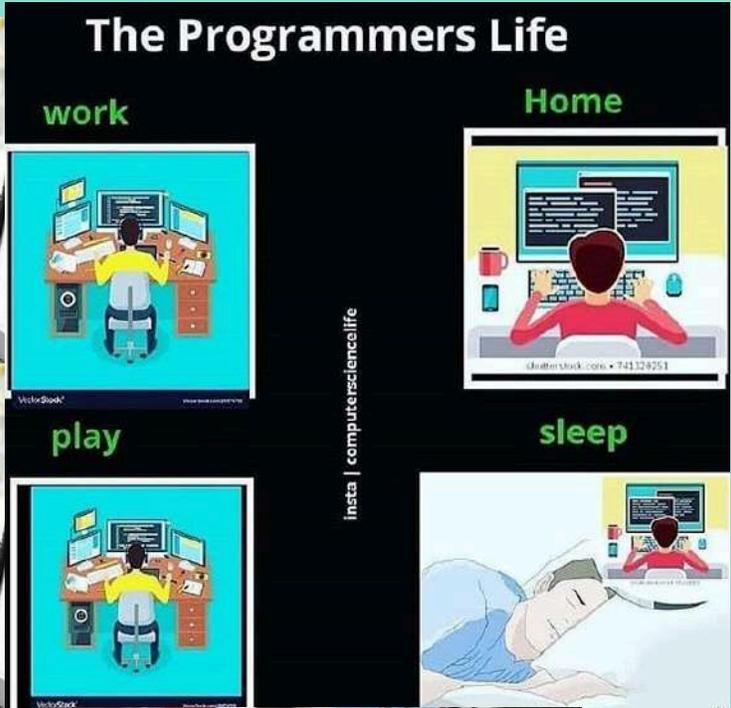17. Region where a variable is accessible (5)

Code, Compute and Create

Ms. Lekhya Shree
Assistant Professor, PSIS
Presidency University, Bengaluru

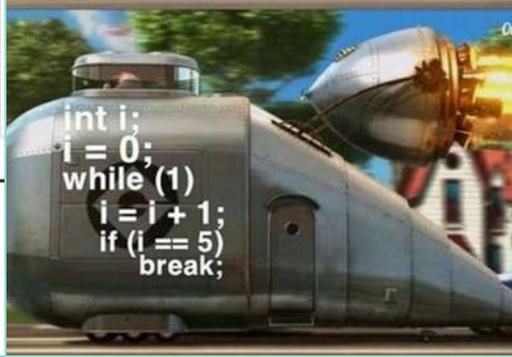# Code, Compute, Create - Empowering ideas through Computation

Best Seller

THE POWER OF COMPUTATIONAL THINKING

Games, magic and puzzles to help you become a computational thinker

Paul Curzon • Peter W McOwan

World Scientific
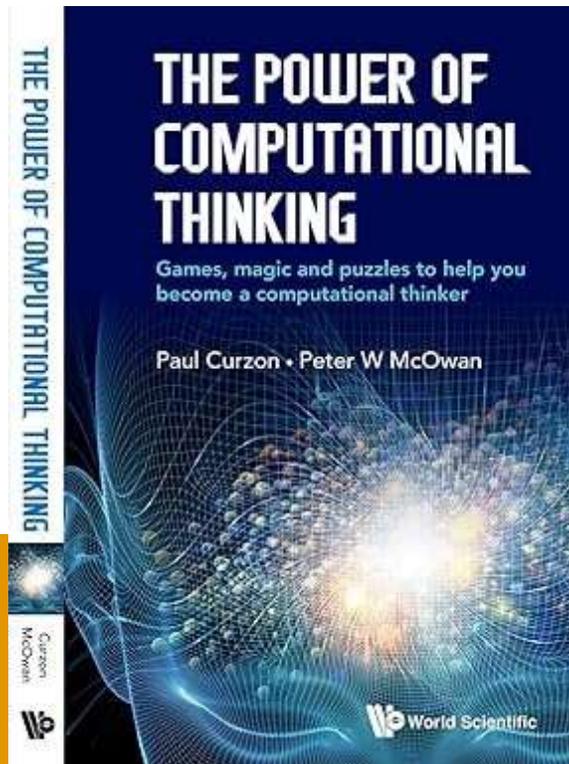
Book Review

Book Review: The Power of Computational Thinking: Games, Magic and Puzzles to Help You Become a Computational Thinker
Author: Paul Curzon & Peter McOwan
Genre: Computer Science / Computational Thinking / Beginner-Friendly Guide
Rating: ⭐⭐⭐⭐⭐ (4.5/5)

In The Power of Computational Thinking, Paul Curzon and Peter McOwan present an engaging introduction to the world of computing concepts through creative and interactive approaches. Instead of focusing on complex programming or technical jargon, the authors use games, puzzles, and even magic tricks to explain fundamental ideas such as algorithms, logical reasoning, abstraction, and problem-solving.

The book demonstrates that computational thinking is not limited to computer scientists but is a valuable skill for anyone who wants to approach problems logically and creatively. Through relatable examples and entertaining challenges, the authors show how computational ideas appear in everyday life and how they can help individuals develop structured ways of thinking.

⭐ Why Read It?
- Understand the basics of computational thinking in a fun and engaging way
- Learn how puzzles and games illustrate important computing concepts
- Discover how logical thinking and creativity work together in problem-solving

Warm Regards,
The Editorial Board

✅ Strengths
- Simple, engaging, and beginner-friendly explanations
- Creative use of puzzles, games, and magic to explain computing ideas
- Encourages curiosity, critical thinking, and problem-solving skills

⚠️ Criticism & Limitations
- May feel introductory for readers seeking advanced technical depth
- Focuses more on concepts than practical programming implementation

⭐ Final Verdict

The Power of Computational Thinking is an insightful and enjoyable read that highlights the creativity behind computing. Perfect for students, educators, and curious learners, the book demonstrates how computational thinking empowers ideas and transforms the way we approach problems in the digital age.
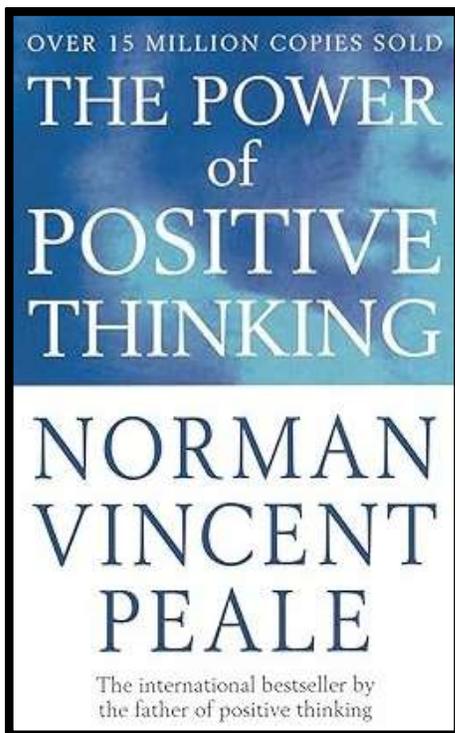
THE POWER OF POSITIVE THINKING

l**The Power of Positive Thinking by Norman Vincent Peale** is a timeless motivational classic that encourages readers to develop a confident and optimistic mindset. First published in 1952, the book has inspired millions of readers around the world by showing how positive thinking can influence success, happiness, and personal growth.

Through practical advice, inspiring stories, and simple techniques, Peale explains how individuals can overcome **self-doubt, manage stress, and build confidence.** The book emphasizes the importance of faith, belief in oneself, and maintaining a hopeful outlook, even during challenging situations. By changing the way we think, the author argues, we can change the way we approach life's problems and opportunities.

The writing style is simple and motivational, making the ideas easy to understand and apply in everyday life. The book encourages readers to replace negative thoughts with constructive ones and to cultivate habits that strengthen self-belief and resilience.

Warm Regards,
The Editorial Board

Why Read It?

- Learn how positive thinking can improve confidence and motivation.
- Discover practical techniques to overcome fear and self-doubt.
- Build a mindset that encourages success and personal growth.

✅ Strengths

- Simple, encouraging, and easy-to-read language.
- Inspiring real-life examples and practical advice.
- Promotes optimism, confidence, and resilience.

⚠️ Criticism & Limitations

- Some ideas may feel repetitive for modern readers.
- Focuses more on mindset than scientific psychological analysis.

⭐ Final Verdict

The Power of Positive Thinking remains one of the most influential motivational books ever written. Its timeless message reminds readers that a positive mindset, confidence, and belief in oneself can greatly influence personal success and happiness.

Upcoming Faculty Development Programmes(FDPs)

Institute Name	FDP Thrust Area	FDP Title	Start Date	End Date	Link for registration
Dept. of Electronics and Computer Engineering Jhulelal Institute of Technology, Nagpur	Engineering and Management	AI - IoT Edge Revolution	9-03-2026	13-03-2026	https://shorturl.ad/lxQmh
Research Foundation of India in association with Parul university	Engineering and Management	R Programming for Budding Data Analysts	20-04-2026	30-04-2026	https://registration.rfiindia.com/data-r-programing/
Research Foundation of India in association with Parul university	Engineering and Management	Capacity Building Program in Cybersecurity & Its Investigation	6-04-2026	13-04-2026	https://registration.rfiindia.com/cyber-security-pro/
EICTA consortium,The Ministry of Electronics and Information Technology (MeitY)	Engineering and Management	Generative AI for Computer Vision	9-03-2026	19-03-2026	https://www.eicta.iitk.ac.in/payment/generative-ai-for-computer-vision?mode=ONLINE

Upcoming Research Proposals

Upcoming Research Proposals from January 2026

Sr.No	Details of Proposal	Details of proposal Link	Important Dates
1	Call for Investigator-Initiated Research Proposals for "ICMR Intermediate Extramural Grants" ("ICMR NISCHAYAK ANVESHAN Extramural Grants") - 2026	https://bitmesra.ac.in/UploadedDocuments/adminrie/files/1766125018_calladvtintermediatenischayakanveshangrants202619thdecember2025.pdf	The last date for submission is 20th Mar 2026
2	India Science and Research Fellowship	https://insaindia.res.in/pdf/Announcement-of-ISRF-Call-2025-26.pdf	The last date for submission is 31st March 2026
3	Indo-Swiss Joint Research Programme (ISJRP)	https://www.moes.gov.in/sites/default/files/2026-01/call_doc_SNSF-MoES_2026-final.pdf	The last date for submission is 8th April 2026
4	India-France call for proposals in Applied Mathematics and Artificial Intelligence by DST and ANR	https://dst.gov.in/callforproposals/india-france-call-proposals-applied-mathematics-and-artificial-intelligence-dst-and	The last date for submission is 20th April 2026

Upcoming Conferences

Upcoming Conferences from 2026

Sr. No	Institute Name	Conference Name	Date	Link of WebPage	Last Date of Paper Submission
1	Madras Section; RMK Engineering College	International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence & Telecommunication Engineering	15 - 16 April, 2026	http://engg.dypvp.edu.in/INSECT-2026/	10/3/2026
2	Lovely Professional University	International Conference on Secure Information Systems and Technologies (ICSIST)	17 - 19 August, 2026	https://icsist.com/	8/5/2026
3	Dr. B.C. Roy Engineering College - BCREC;	2026 International Conference on Computing, Intelligence, and Applications (CIACON)	30 - 31 July, 2026	https://www.ciacon.in/cfp.html	30/4/2026
4	Pimpri Chinchwad College of Engineering & Research (PCCOER)	2026 IEEE Asia Conference on Innovation in Emerging Technology (ASIACONF)	29 - 31 August, 2026	https://asiaconf.in/	11/3/2026
5	Silicon University, Bhubaneswar, India	Intelligent Computing and Sustainable Innovation in Technology (IC-SIT) 2026	8-10 September,2026	https://ic-sit.in/	30/4/2026

UPCOMING EVENTS
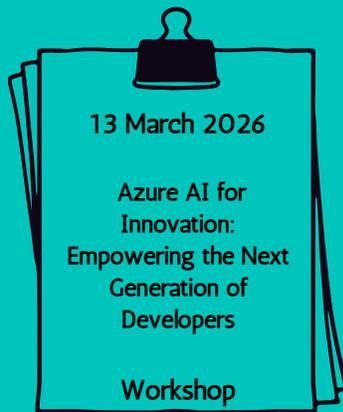
13 March 2026

Azure AI for Innovation: Empowering the Next Generation of Developers
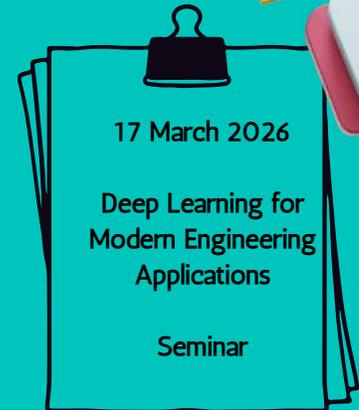
Workshop
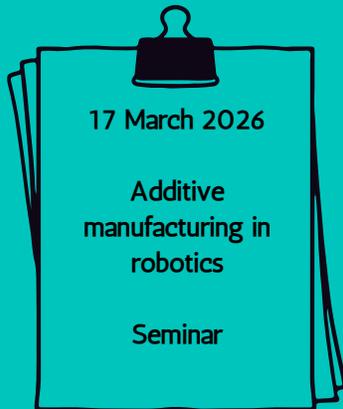
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13 March 2026

Cloud and Devops Micro services

Workshop

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17 March 2026

Deep Learning for Modern Engineering Applications

Seminar

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17 March 2026

Additive manufacturing in robotics

Seminar

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20 March 2026

Launch your Global Journey : GRE & TOEFL Training Camp

Webinar

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20 March 2026

Design Thinking and Innovation

SDP

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23 Jan, 2026

Data Handling and Visualization Techniques

Webinar

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24 Jan, 2026

Achieving Excellence: Mastering OBE for Impactful Learning
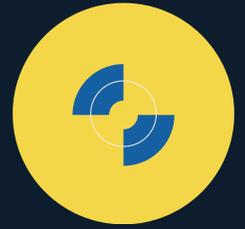
FDP

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28 Jan, 2026

Data Engineering and ETL data bricks

Webinar

THE WRAP UP

As this edition of The Communique comes to a close, we reflect on the theme "Code, Compute, Create – Empowering Ideas through Computation." In today's digital era, coding and computational thinking are not just technical skills but powerful tools that transform ideas into meaningful innovations.

Key Takeaways from This Edition

- Coding for Innovation - Coding helps transform ideas into practical digital solutions that address real-world problems.
- Computational Thinking - Logical reasoning and problem decomposition help in solving complex challenges efficiently.
- Creativity through Technology - Computing provides a platform to design interactive systems and bring creative ideas to life.
- Interdisciplinary Impact - Computing drives innovation across fields like healthcare, education, business, and environmental science.
- Collaboration in the Digital Age - Sharing knowledge and working together on digital platforms strengthens innovation and learning.
- Empowering Future Problem Solvers- Encouraging coding and computational skills prepares the next generation to build impactful solutions.

Final Thoughts

Code, Compute, Create is more than a theme. iI is a mindset that encourages curiosity, experimentation, and innovation. When ideas meet computational power, they have the potential to evolve into impactful technologies that benefit society. By nurturing these skills and perspectives, we empower individuals to move beyond consuming technology and instead become creators of the digital future.

Vision of Presidency School of Computer Science and Engineering

Vision	To be a value-driven global University, excelling beyond peers, creating professionals of integrity and character, and having concern and care for society.

Mission of Presidency School of Computer Science and Engineering

Mission	Commit to be an innovative and inclusive institution by seeking excellence in teaching, research, and knowledge.
Mission	Pursue research and development and its dissemination to the community at large.
Mission	Create, sustain, and apply learning in an interdisciplinary environment with consideration for ethical, ecological, and economic aspects of nation-building.
Mission	Provide knowledge-based technological support and services to the industry in its growth and development.
Mission	To impart globally applicable skill sets to students through flexible course offerings, support industry's requirements, and inculcate a spirit of new venture.

PROGRAM SPECIFIC OUTCOMES (PSOs) FOR B.TECH

PSO1	Problem Analysis: Identify, formulate, research literature, and analyse complex engineering problems related to Software Engineering principles and practices, Programming and Computing technologies reaching substantiated conclusions using first principle of Mathematics, Natural Sciences and Engineering Sciences.
PSO2	Design/development of Solutions: Design solutions for complex engineering problems related to Software Engineering principles and practices, Programming and Computing technologies and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.
PSO3	Modern Tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities related to Software Engineering principles and practices, programming and computing technologies with the understanding of the limitations.

Vision of Presidency School of Information Science

Vision	To be a global centre of excellence in information science and research, fostering innovation and producing professionals with integrity and ethical responsibility.

Mission of Presidency School of Information Science

Mission	To provide high-quality education in information science, equipping students with strong technical expertise and problem-solving skills.
Mission	To promote research and innovation in information science and technology, addressing real-world challenges through industry collaboration.
Mission	To nurture graduates with strong ethical values and a commitment for lifelong learning for sustained professional growth in the IT sector and allied fields.

PROGRAM SPECIFIC OUTCOMES (PSOs) FOR BCA

PSO1	Disciplinary knowledge: Demonstrate comprehensive knowledge and understanding of Computer Applications, Data Science and AI/ML techniques.
PSO2	Problem Solving: Identify, formulate and apply appropriate techniques in the areas related to Software development, Big data, Network, Cloud computing technolgies and related domains of varying complexities in real-time applications.
PSO3	Design/development of Applications: Design, develop, and test full stack applications by applying principles of software engineering, addressing real-world requirements across various domains.

CODE, COMPUTE, CREATE

Empowering ideas through computation