

CHINMAYA VIDYALAYA
NEW DELHI

TECH TALK



COMPUTER SCIENCE E-NEWSLETTER
(2024-2025)

Principal's Message

In today's rapidly evolving world, knowledge of Computer Science, Artificial Intelligence, and Multimedia Tools has become indispensable. These domains not only shape the future of technology but also drive innovation across every field. At Chinmaya Vidyalaya, we are committed to preparing our students to thrive in this digital era.

Our curriculum emphasizes the integration of these cutting-edge technologies, fostering creativity, critical thinking, and problem-solving skills. With a focus on hands-on learning, students are introduced to the transformative potential of AI, the power of programming, and the limitless possibilities of multimedia tools.

We take pride in offering platforms like coding competitions, AI-based projects, and digital creativity workshops, which enable our learners to explore and experiment with their ideas. Such initiatives inspire them to think beyond traditional boundaries and develop solutions for real-world challenges.

As educators, our goal is to ensure that students not only acquire technical proficiency but also develop a responsible and ethical approach to technology.

Through this commitment, Chinmaya Vidyalaya continues to nurture innovators and leaders who will make meaningful contributions to society. We are proud to see our students embracing these opportunities with enthusiasm, setting a strong foundation for success in the ever-evolving global landscape.

Keep learning keep growing!



Ms. Archana Soni

Principal

Chinmaya, Vidyalaya, New Delhi

Editorial

Computer Science stands at the core of every technological advancement shaping the modern world. It is the foundation of all innovations driving today's digital age. Among its most transformative tools is Artificial Intelligence (AI), which has revolutionized how we live, work, and interact, simplifying complex tasks and enhancing efficiency across industries.

It fosters critical thinking, problem-solving, and creativity, preparing students for future technological advancements. Learning computer science helps students understand the basics of programming, data structures, and algorithms, skills that are in high demand across various industries. AI, on the other hand, introduces students to intelligent systems that can learn and adapt, paving the way for careers in fields like robotics, healthcare, and finance. Together, these subjects develop logical reasoning and equip students with the tools needed to innovate, solve complex problems, and thrive in a tech-driven future.

Brijesh K Loshali

Head of Computer Science Department



School Activities

Awakening: Basic Life Support



Dr. Nikita and Mr. Rajkumar (Special Trainer) conducted a session on BLS (Basic Life Support) and General First Aid demonstration on 24th December 2024 for Classes VI to XI. It covered the topics like the ABPU framework (Alert, Body, Pain, Unresponsive) for victim assessment, distinguishing between normal and accidental unconsciousness, and appropriate remedies for each.

World Disability Day

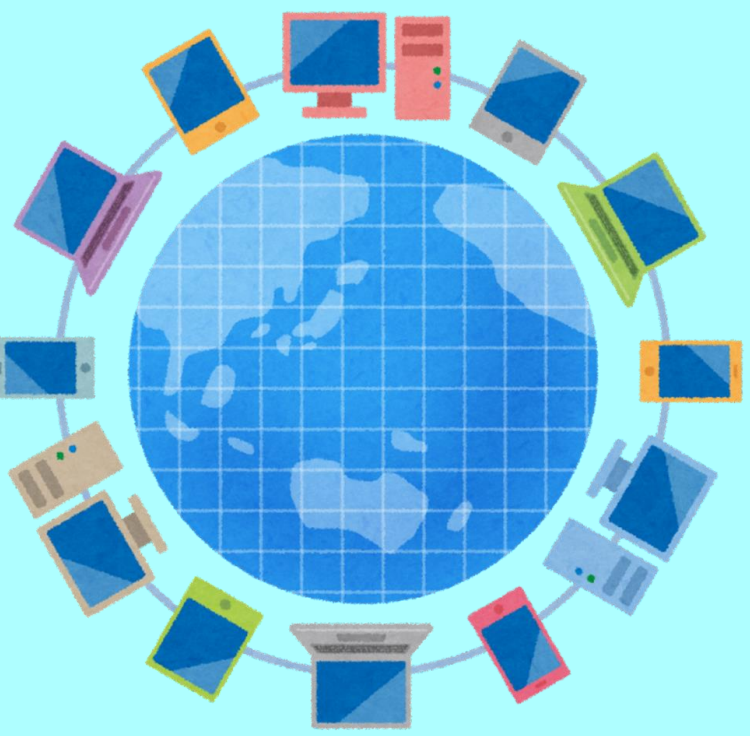


A special assembly was held to celebrate World Disability Day, honoring the spirit of inclusivity and the extraordinary talents of individuals with disabilities. Educators and students from Tamana School of Hope joined the occasion, with Dr. Ritu Juneja, the Director & Principal, as the chief guest.

Gita Jayanti and Tapovan Jayanti

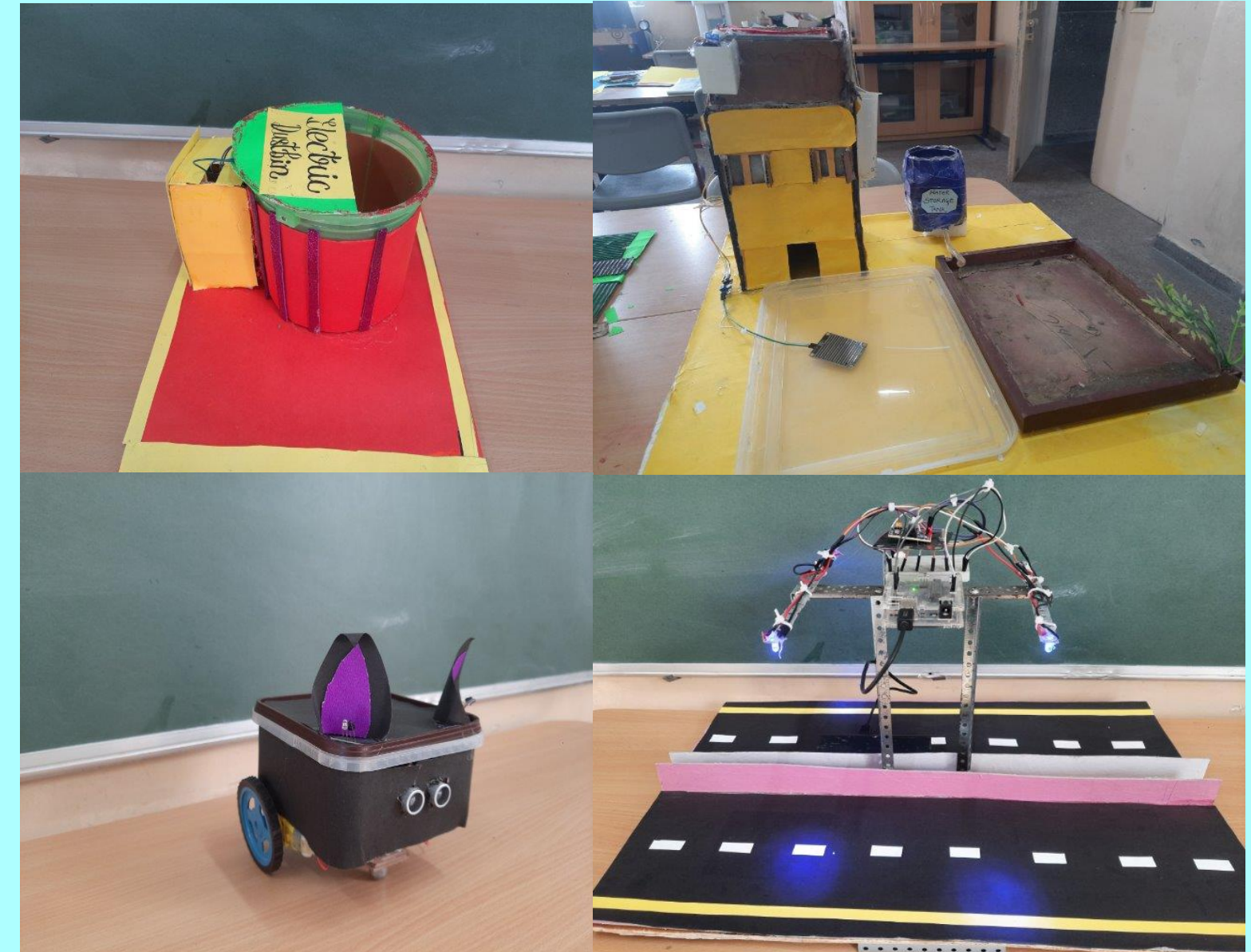


Gita Jayanti and Tapovan Jayanti was celebrated on 11th December, 2024. Students from classes VI to XII joined the event online.





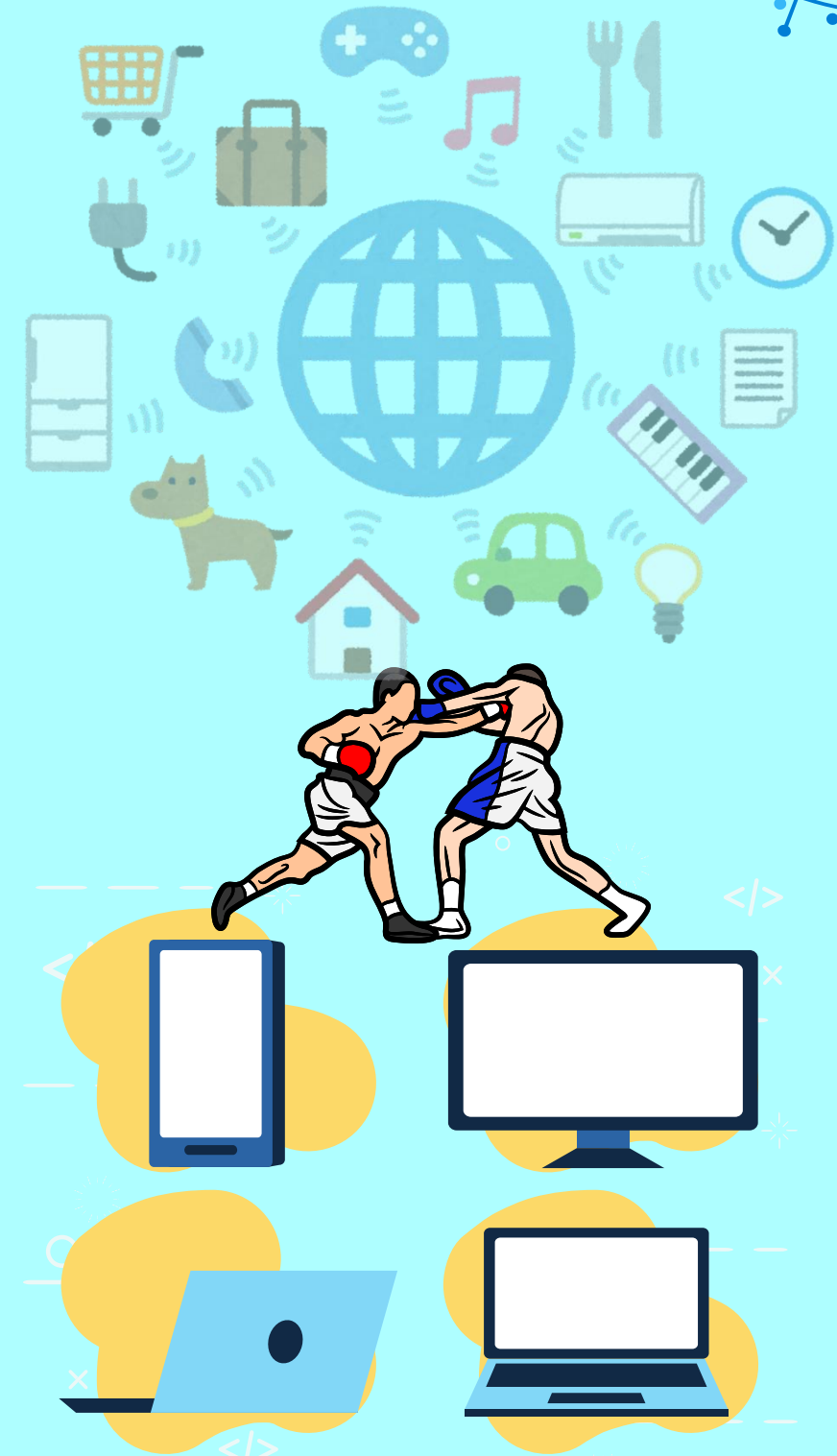
School Innovation Marathon-2024



On 31st December 2024, Chinmaya Vidyalaya bid farewell to Class XI students with a heartfelt programme filled with nostalgia and gratitude.

Students participated in the School Innovation Marathon 2024, presenting innovative solutions that showcased their creativity and problem-solving skills.

Achievement



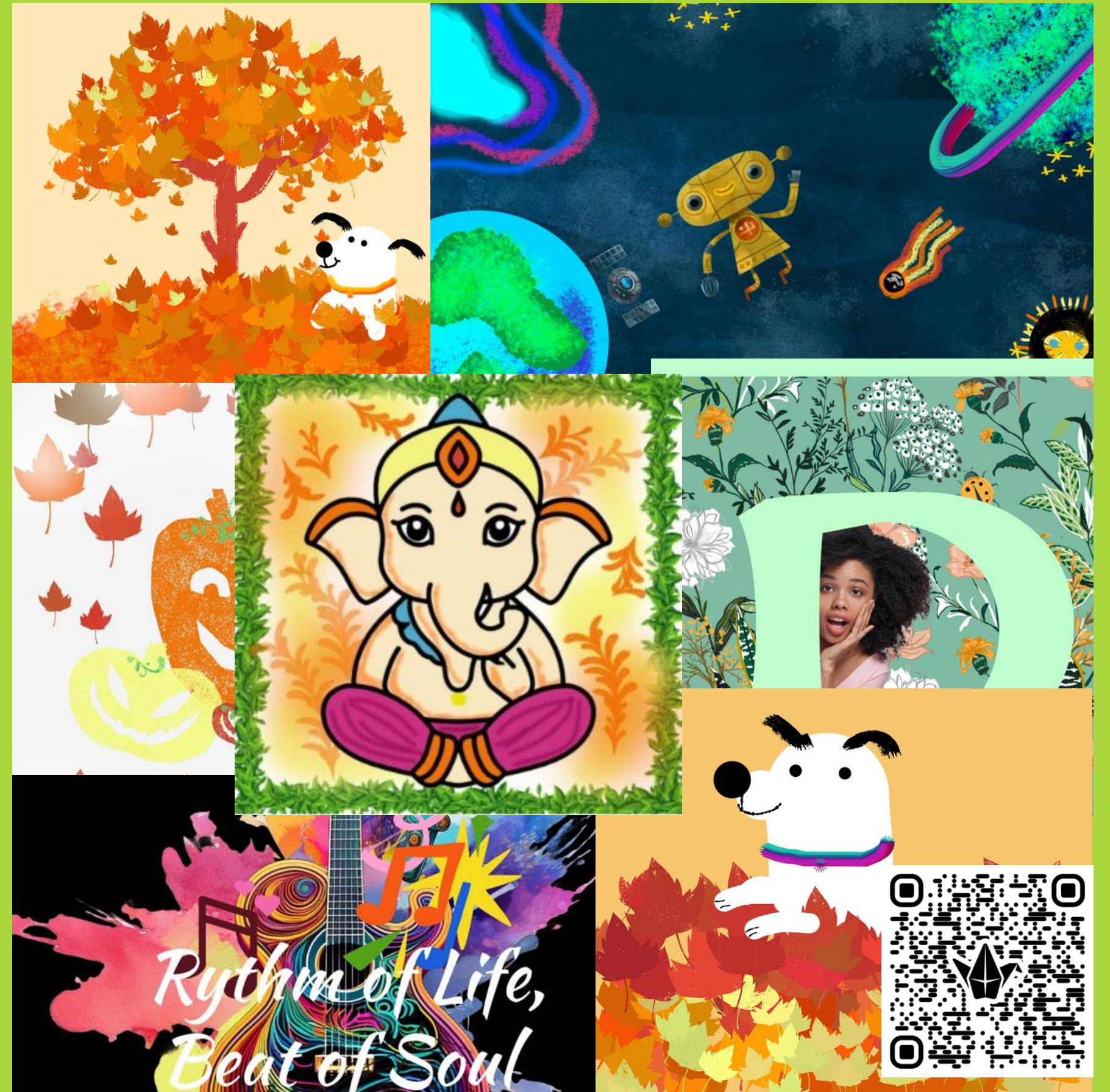
Prachi Tokas of Class XI secured First Position (Gold Medal) in the 68th National School Games Boxing Championship held between 08.12.2024 to 15.12.2024 at Rajiv Gandhi Stadium, Bawana, Delhi.

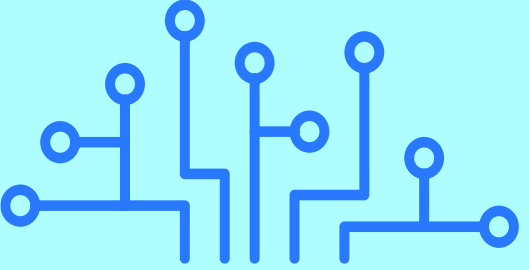
Excited Journey with Adobe Express

Students from Classes V to IX have been enrolled in a specialized program aimed at enhancing their Digital Creativity and AI skills through Adobe's innovative platform. This forward-thinking initiative is designed to equip young learners with advanced knowledge in Artificial Intelligence and creative tools, laying a strong foundation for their future in a technology-driven world.

Through this program, students gain hands-on experience in leveraging AI-powered tools to bring their ideas to life, fostering a blend of technological proficiency and artistic expression.

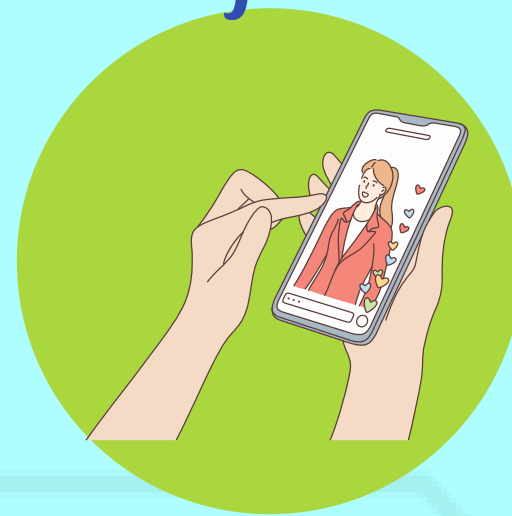
This initiative reflects our commitment to empowering students with the tools and knowledge to excel in the modern era while fostering a passion for exploration and lifelong learning.





Tips to Cybersafe

Secure Your Devices and Accounts



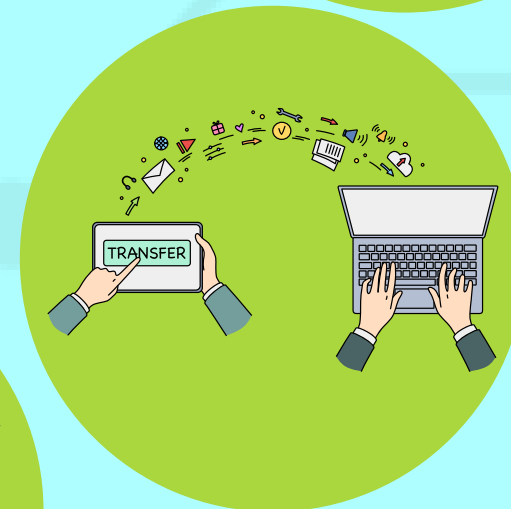
Be Cautious on Social Media



Teach Children and Seniors

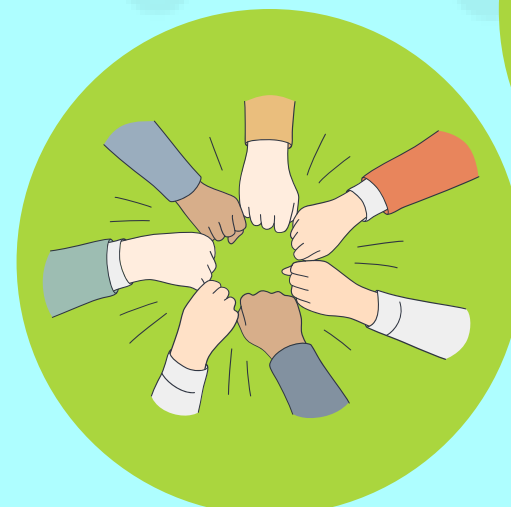


Be Aware of Indian Cyber Laws



Regular Backups

Trust, but Verify



Stay Safe on Public Wi-Fi



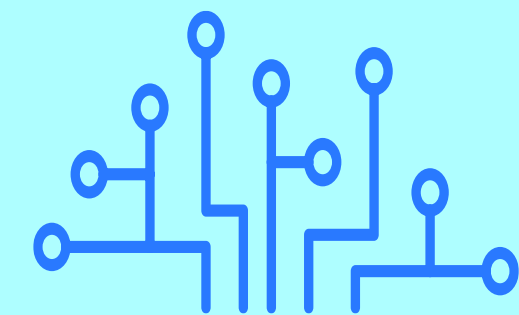
Secure Financial Transactions



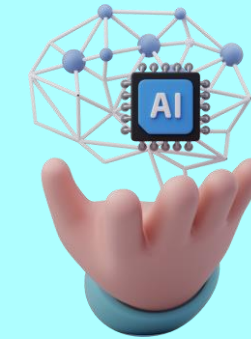
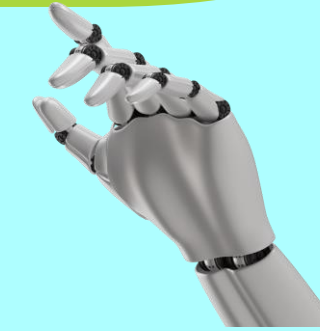
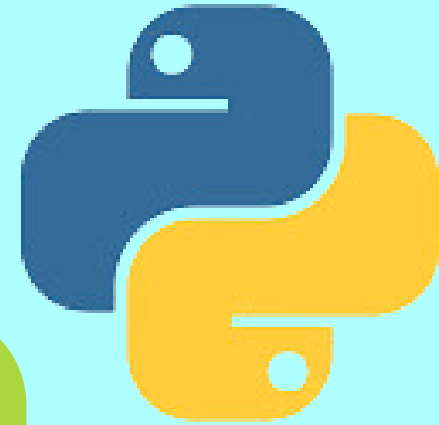
Protect Personal Information



Be Vigilant About Phishing Scams



"Voice of Tomorrow: Student's Perspective"



Python: My best friend

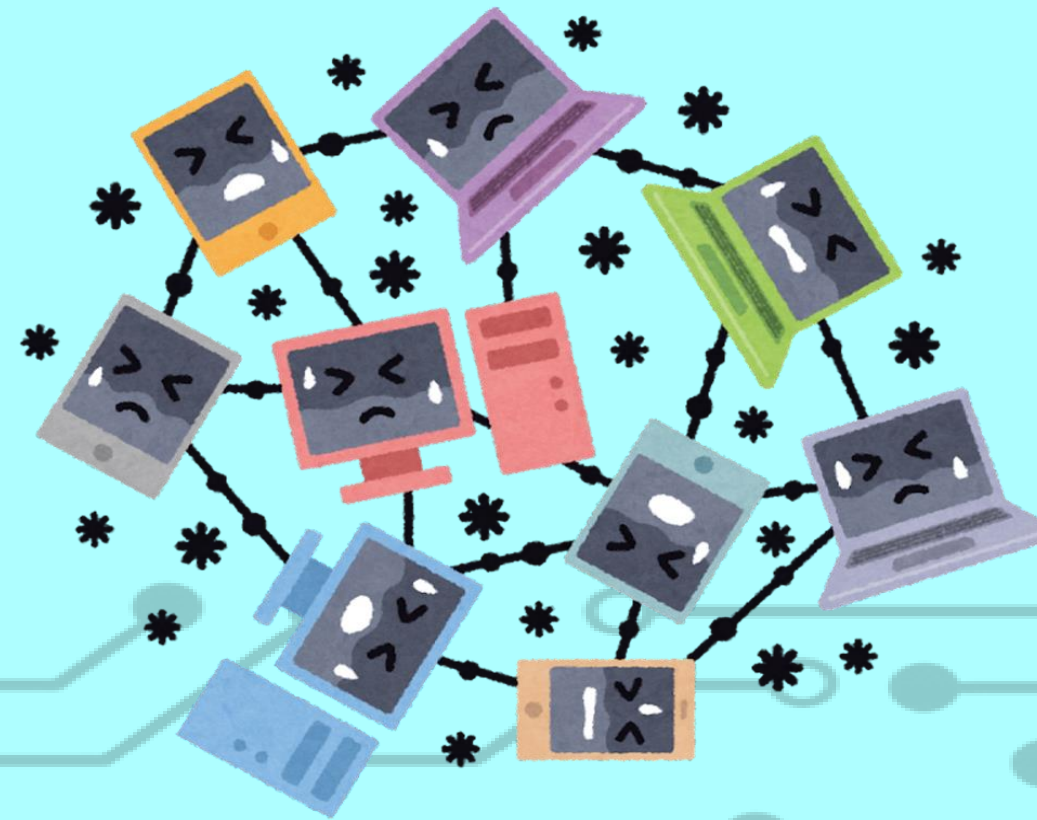
Imagine having a friend who's always ready to lend a hand, never judges you for the occasional mistake, and effortlessly solves problems with zero fuss. That's Python—the most laid-back programming language you'll ever meet.

Whether you're just starting or already a coding pro, Python welcomes you with open arms. Its syntax is clean, simple, and almost feels like writing in plain English. Need a reminder for that history essay deadline? Python can whip up a script in no time. Have a bunch of files to rename? Python will get it done while you kick back with a cup of coffee.

Unlike other languages that might throw complex syntax your way, Python's philosophy is: "Let's keep it simple." It's no wonder it's used everywhere—from automating repetitive tasks to powering some of the world's most sophisticated AI systems. It's the perfect mix of power and ease.

So, whether you're building an AI assistant or just managing your daily to-dos, Python's got you covered. Chill, reliable, and endlessly versatile—it's the programming companion everyone needs.

R. Anushka (Class X11)



Dark side of Cyberbullying

The consequences of cyberbullying can be severe, especially for children and adolescents, but adults are not immune either. Victims often suffer from a range of emotional and psychological issues, such as:

Low Self-Esteem: Constant negative comments can make the victim feel worthless.

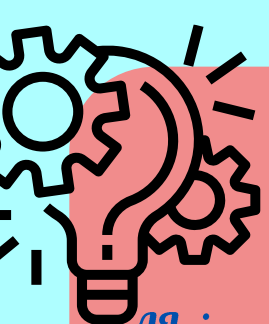
Anxiety and Depression: The emotional toll of online harassment can lead to feelings of isolation and despair.

Academic Decline: For students, the stress from cyberbullying can distract from schoolwork, leading to a decline in performance.

Increased Risk of Suicide: In extreme cases, victims of severe cyberbullying may contemplate or attempt suicide.

The fact that cyberbullying is persistent—available 24/7—makes it particularly dangerous. Victims often feel trapped, unable to escape the constant barrage of harmful comments or images.

Aditya Narayan (Class 1X)



AI: Friend or Foe

AI is undeniably revolutionizing the tech world, sparking both excitement and anxiety about its impact on jobs. Tools like ChatGPT and GitHub Copilot are impressive, but they don't replace human creativity or problem-solving. AI excels at repetitive tasks, boosting efficiency and saving time, yet it lacks the ingenuity needed for groundbreaking innovations. While roles focused on routine tasks may decline, new opportunities—like AI specialists and data scientists—are emerging. Rather than fear AI as a job-killer, we should embrace it as a powerful assistant, enabling developers to focus on creativity and drive innovation in ways previously unimaginable.

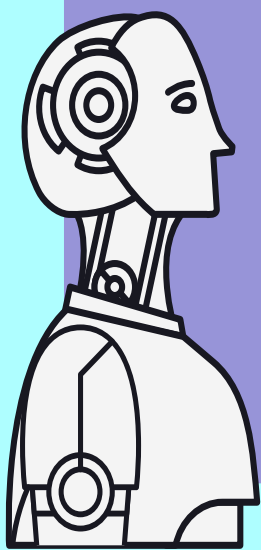
Abhinav Gautam (Class XII)

In recent years, Artificial Intelligence (AI) has rapidly evolved, making its presence felt in nearly every industry, from healthcare and education to entertainment and finance. With AI systems becoming increasingly sophisticated, there's a growing debate about whether these technologies are a blessing or a curse. As AI continues to shape the future, it's essential to weigh its potential benefits and drawbacks, considering its impact on society, economy, and humanity.

Challenges and Concerns:

- Job Displacement and Economic Inequality
- Bias and Discrimination
- Privacy and Security Risks
- Loss of Human Control and Ethical Dilemmas

Guransh Khattar (Class-IX)



Dependence on Technology: A Double-Edged Sword

Technology was designed to improve our lives—making communication faster, information more accessible, work more efficient, and even enhancing personal safety.

However, there's a growing concern that technology can also be addictive and overbearing, leading to a sense of dependency that can feel enslaving.

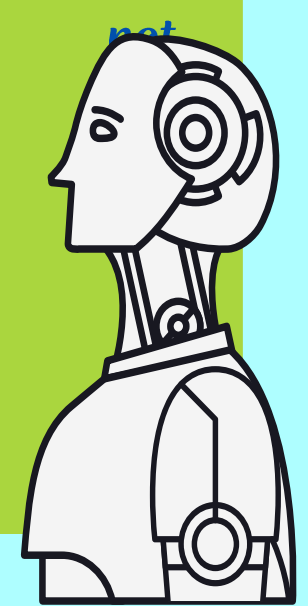
Some examples include:

1. **Social Media:** Many people feel compelled to check notifications constantly, often to the detriment of their mental well-being. Algorithms are designed to keep us engaged, making it easy to lose track of time or become emotionally invested in a digital world.
2. **Smartphones:** While they are incredibly useful tools, they have become constant companions, keeping us connected but also distracting us from real-life interactions. The constant need for "connection" through these devices can feel like a kind of servitude.
3. **Work Automation and AI:** In some ways, technology can also blur the line between productivity and surveillance, where workers may feel constantly "on" or "monitored by devices, even in their private lives. This could lead to burnout and loss of autonomy.

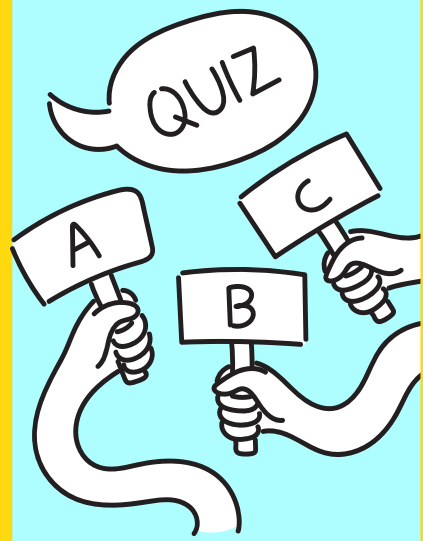
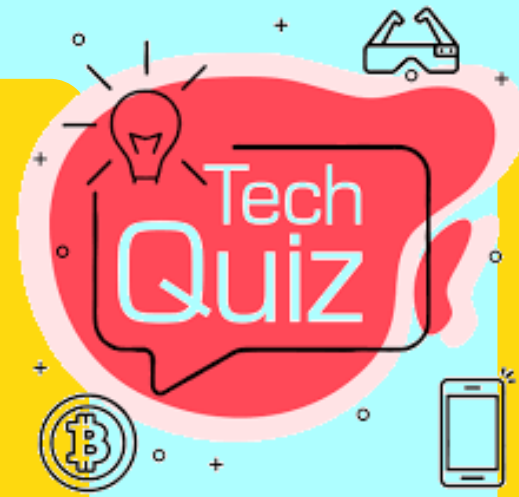
In conclusion, just as tools like the wheel, the plow, and the printing press once revolutionized human life, technology today offers both tremendous benefits and significant challenges. Ultimately, it's up to us to maintain control, ensuring that technology remains a servant to our needs, the other way around.

Ms. Saroj Bidhuri

TGT, Computer Science



- Which technology is primarily responsible for the rise of generative AI tools like ChatGPT?
 - Quantum Computing
 - Neural Networks
 - Blockchain
 - 5G Networks
- What is the name of the new global internet standard that promises faster speeds and lower latency compared to current 4G?
 - 5G
 - 6G
 - Wi-Fi 6
 - LTE
- Which of the following companies announced the development of a quantum computer capable of achieving quantum advantage in 2024?
 - IBM
 - Google
 - Intel
 - Microsoft
- In 2025, which platform is expected to play a major role in the development of virtual and augmented reality experiences?
 - Oculus
 - Meta Quest
 - Apple Vision Pro
 - Google Glass
- Which programming language is now widely used for the development of AI and machine learning models due to its powerful libraries and frameworks?
 - Java
 - Python
 - JavaScript
 - Swift



- What is the term used to describe decentralized finance (DeFi) systems powered by blockchain technology?
 - Smart Contracts
 - Web 3.0
 - Cryptography
 - FinTech
- Which company recently launched a large-scale AI model aimed at transforming the way businesses operate and improve productivity?
 - Microsoft
 - Amazon
 - OpenAI
 - Apple
- What breakthrough in the field of cybersecurity has become crucial for protecting digital identities in 2025?
 - Biometric Authentication
 - Two-factor Authentication (2FA)
 - Zero Trust Architecture
 - Digital Signatures
- Which of these innovations is being used to create self-healing systems in IT infrastructure, where systems automatically repair themselves without human intervention?
 - Artificial Intelligence Operations (AIOps)
 - DevOps
 - Blockchain
 - Autonomous Vehicles
- What is the main advantage of edge computing in comparison to cloud computing?
 - It offers centralized data processing
 - It allows for faster data processing by keeping data closer to where it's generated
 - It requires less hardware
 - It reduces energy consumption

Answers:

- (b) Neural Networks
- (b) 6G
- (b) Google
- (c) Apple Vision Pro
- (b) Python
- (b) Web 3.0
- (c) OpenAI
- (c) Zero Trust Architecture
- (a) Artificial Intelligence Operations (AIOps)
- (b) It allows for faster data processing by keeping data closer to where it's generated

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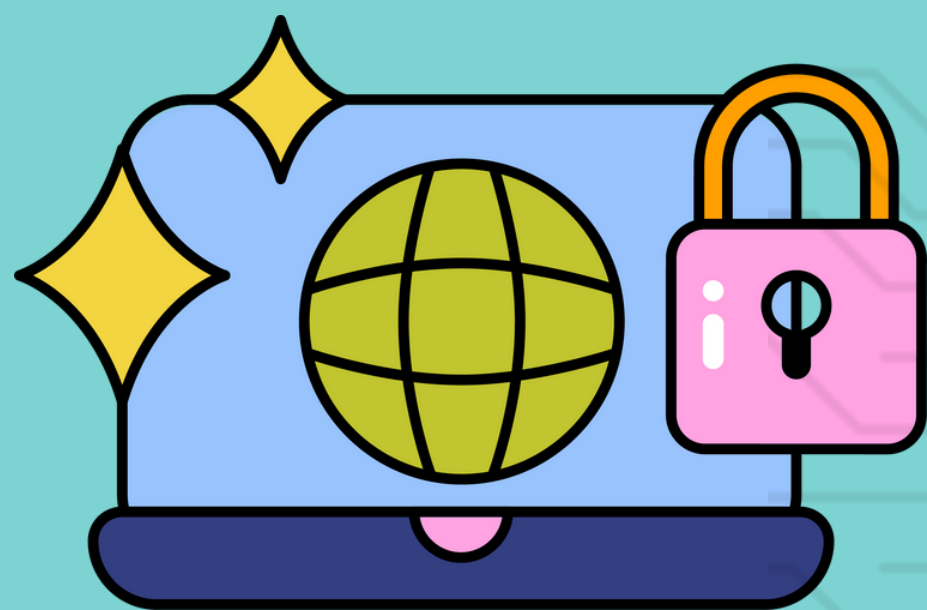
Stay safe

don't
Meet up

be
careful
Accepting
files

check
Reliability

tell
Someone



Thank You

