CORE CONNECT

WEEKLY

NEWSLETTER

24 November, 2025

ISSUE: 12

Tech Trends

- **ISRO to Launch Heaviest US Comsat on LVM3:** ISRO's LVM3 will launch AST SpaceMobile's 6.5-tonne BlueBird-6 on December 15, delivering record-sized LEO phased-array broadband satellite for direct-to-device connectivity.

  Read more
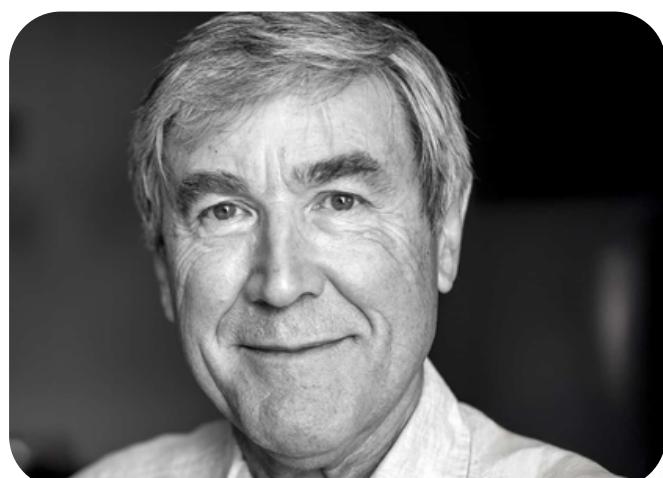
- **Paul Davies on "Quantum 2.0" and the Next Physics Revolution:** Paul Davies discusses his book Quantum 2.0, exploring how a new quantum revolution could fuse quantum tech with AI, reshape science, ethics and even the arts.

  Read more

- **Nvidia Pushes GeForce Now India Launch to Q1 2026:** Nvidia has delayed GeForce Now's India debut to Q1 2026, citing ongoing local server buildout aimed at cutting latency and competing with newly launched Xbox Cloud Gaming.

  Read more
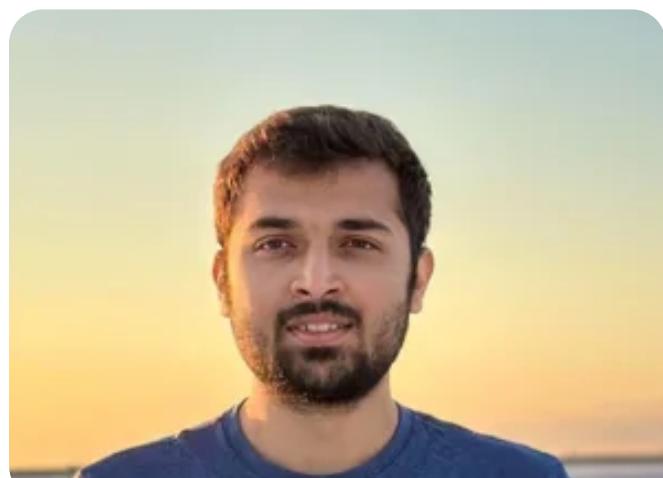
- **Google Engineer Credits Mentorship for Career Breakthrough:** Google engineer Deep Shah, who moved from Bengaluru to California, says strong mentors shaped his growth, helping him navigate Big Tech, relocation, and long-term career decisions.

  Read more

- **India, Australia, Canada launch tech & innovation alliance:** India, Australia, and Canada agreed to form a trilateral technology and innovation alliance focused on green energy, critical minerals, resilient supply chains, and responsible AI deployment.

  Read more

World Wrap
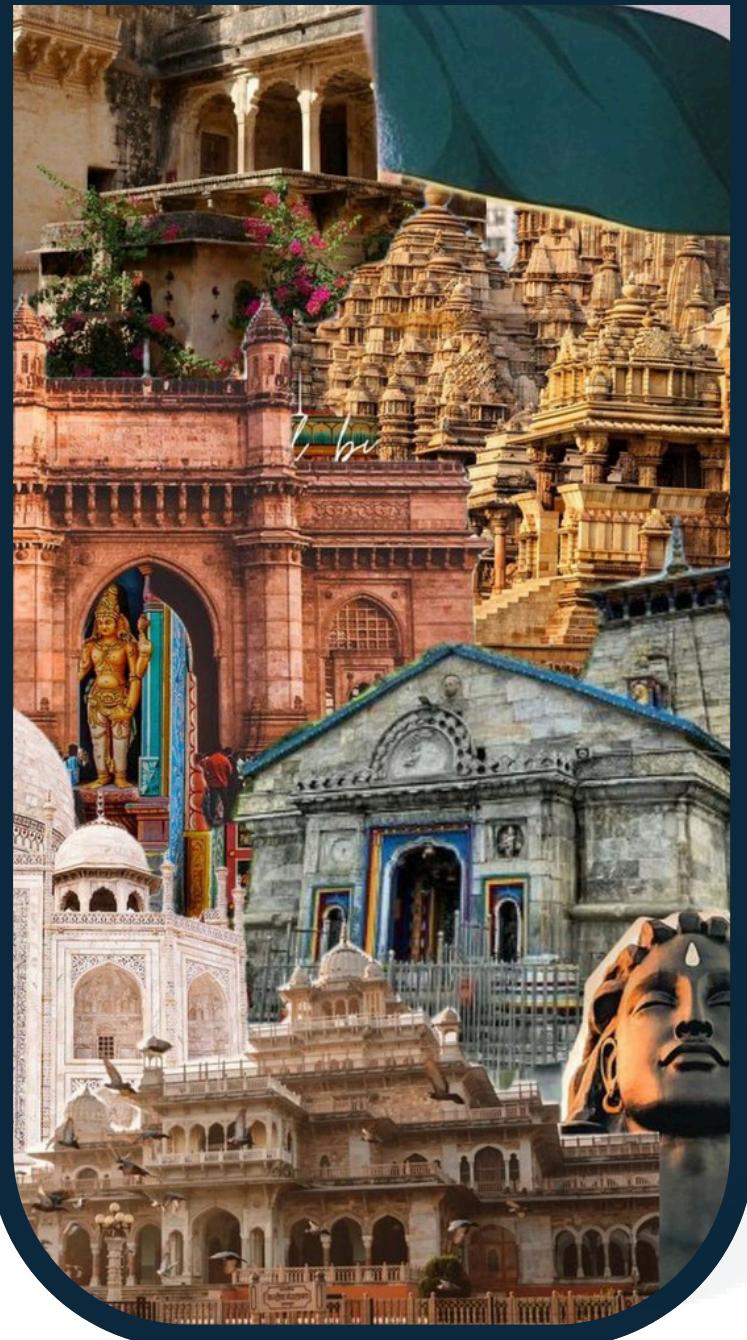
INDIA

- **India Honors Tejas Hero**

  India salutes Wing Commander Namansh Syal for showcasing Tejas at Dubai, inspiring pride and future excellence in aviation.

- **Justice Surya Kant CJI**

  Justice Surya Kant sworn in as 53rd Chief Justice of India, focusing on reducing backlog and promoting mediation.

- **Delhi Air Pollution Worsens**

  Delhi's air quality plunged to severe levels, crossing AQI 400 in many areas, raising health concerns and prompting calls for urgent action.

Sports & Culture

- **India Wins Blind Cricket**

  India's women's blind cricket team triumphed in the inaugural T20 Blind Women's World Cup, defeating Nepal in the final.

- **Lakshya Sen Wins Title**

  Lakshya Sen won the Australian Open Super 500, defeating Yushi Tanaka, ending his title drought and boosting his career momentum.

- **Prayagraj Indo-Japanese Park**

  Prayagraj is building a ₹124 crore Indo-Japanese Cultural Park with gardens, Zen spaces, and fusion Indian-Japanese cultural elements.

World Wrap

Business & Economy
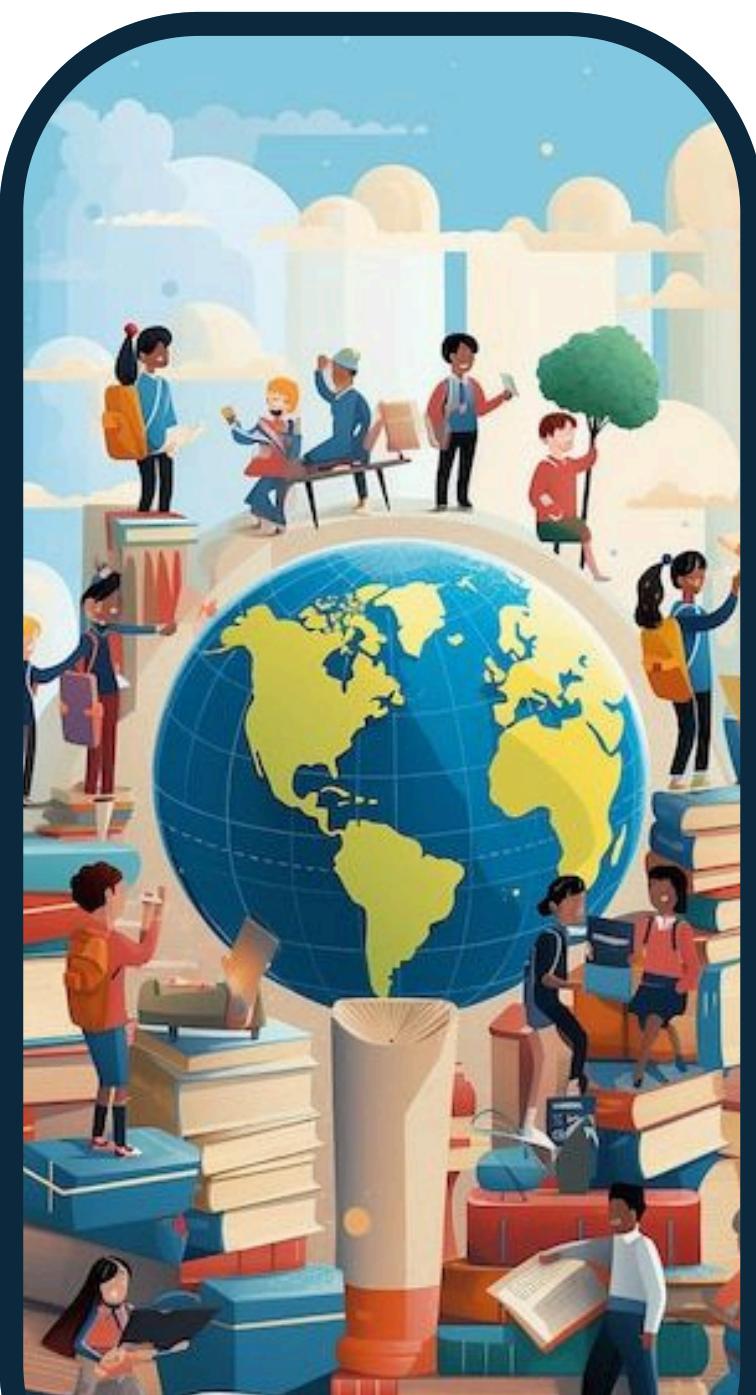
India Defence Production Record

India's defence production reached ₹1.54 lakh crore in FY 2024–25, marking a record high and strengthening strategic self-reliance.

RBI Supports Indian Rupee

The Reserve Bank of India intervened in the forex market to stabilize the rupee, halting its slide toward 90. The move reassured investors and curbed market volatility.

India Forex Reserves Surge

India's foreign exchange reserves rose by USD 5.54 billion to $692.58 billion, driven mainly by higher gold valuations, strengthening the country's external balance and boosting investor confidence.
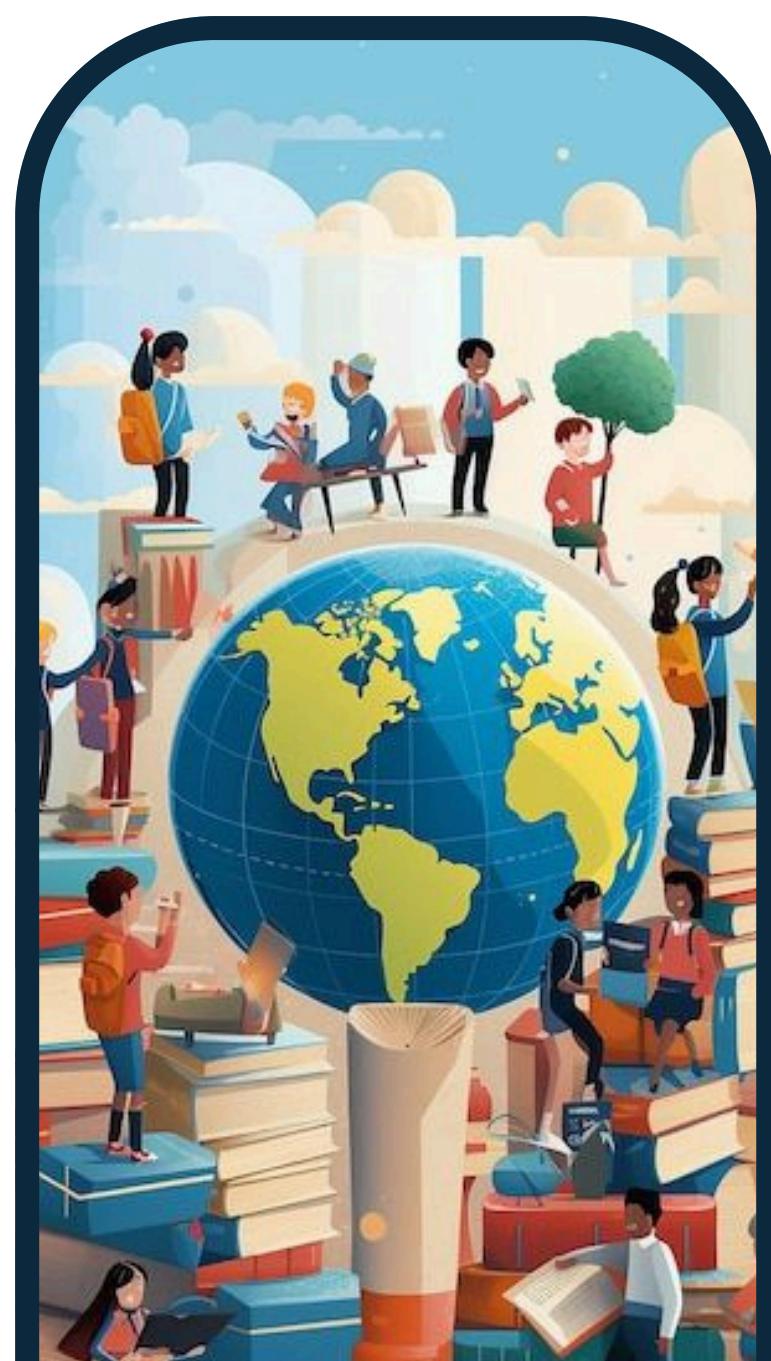
Global & Tech

G20 Climate Declaration Adopted

G20 leaders in South Africa adopted a joint climate declaration, advancing commitments despite the U.S. boycott of the summit..

Brazil Advances Fossil Phase-Out

Brazilian President Lula presented a roadmap to phase out oil, coal, and gas at the G20, promoting sustainable energy transition.

Tata Digital Restructures Staff

Tata Digital is laying off employees as part of a strategic overhaul, focusing on strengthening core digital infrastructure and services.

CODING TIPS & CHALLENGES

Tips

Learn Command Line Tools
They make you faster and more powerful.

Sleep on Bugs
Sometimes the best fix comes after a good rest.

Read Documentation First
Before Stack Overflow, check the official docs.

Secure Your Code
Never ignore validation, encryption, or input checks.

Keep Learning Git Branching
Master merges, rebases, and rollbacks — lifesavers in teamwork.

CHALLENGES

Challenge 19: Find Power (Basic)
Compute a^b without using the power operator or pow().

Challenge 20: Merge Two Lists (Intermediate)
Combine two lists manually without using + operator.

Challenge 21: Spiral Matrix (Advanced)
Print a 2D matrix in spiral order.

OPEN SOURCE SPOTLIGHT

GIMP – Advanced Image Editing Software

GIMP is an open-source alternative to Photoshop that offers professional-level image editing tools. It supports layers, masks, filters, and custom brushes for creative work. Students often use it for posters, banners, and digital art. With plugin support and community tutorials, it's powerful yet beginner-friendly.

Key Features:
- Layer & filter toolkit
- Brush & color tools
- Cross-platform
- Free to use

Check out the solutions for all coding challenges here

ENGINEERING BEYOND CSE

MECHANICAL

VVDN Technologies Unveils Mechanical Innovation Park in Gurugram

VVDN Technologies has inaugurated a Mechanical Innovation Park in Gurugram, designed to advance research and manufacturing in areas such as rapid prototyping, mold and tool development, and high-precision part production. The facility aims to strengthen India's position in IoT hardware and advanced manufacturing, providing a future-ready environment for students and industry professionals to collaborate on next-gen mechanical innovations.

Noida International Airport Becomes India's First Project to Use Low-Carbon LC3 Cement

In a major step toward sustainable infrastructure, Noida International Airport has adopted **Limestone Calcined Clay Cement (LC3)** — a low-carbon alternative that emits nearly 40% less CO_2 and costs 25% less than traditional cement. The project sets a new benchmark for eco-friendly construction and supports India's broader climate goals without compromising strength or durability.

CIVIL

ELECTRICAL
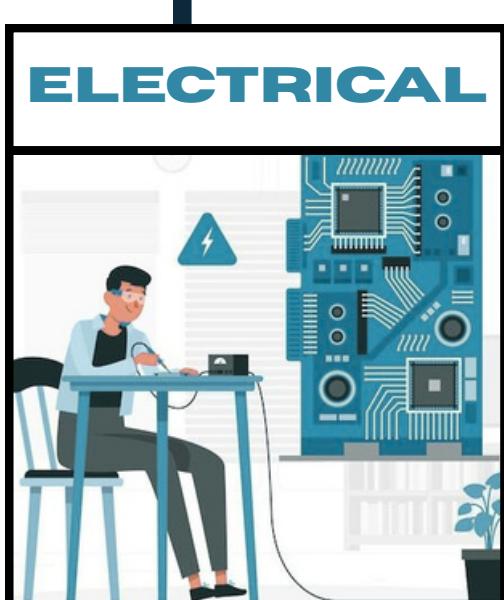
Indian Railways Tests Drone-Based Solar Panel Cleaning Technology

North Central Railway has successfully conducted a drone-based solar panel cleaning trial at its solar power plants. The drones efficiently clean panels without water, reducing both maintenance costs and manual labor. This innovation enhances power generation efficiency, promotes renewable energy adoption, and highlights Indian Railways' focus on sustainability and smart infrastructure.

STARTUP & INNOVATION ZONE

STARTUP TIP

1. **Find co-founders with complementary skills.**

2. **Build something people talk about**

3. **Test, tweak, repeat.**

Startup of the Week

AGNIKUL COSMOS

- Agnikul Cosmos is focused on building reusable rockets, aiming to reduce the cost and environmental impact of space missions.

- The ₹150 crore raise will boost manufacturing, testing, and technology development, propelling Agnikul's goal of commercial space launches.

- The startup exemplifies India's growing innovation in space technology, with ambitions to position the country as a major hub for space commercialization.

NEWS UPDATE

### Agnikul Raises ₹150 Crore to Develop Reusable Rockets

Agnikul Cosmos secured ₹150 crore funding to expand production, advance reusable rocket technology, and build a large space campus in Tamil Nadu, aiming for the first fully reusable small-satellite launch vehicle globally.

READ MORE

Beyond Books

Henry Ford

"Whether you think you can, or you think you can't — you're right."
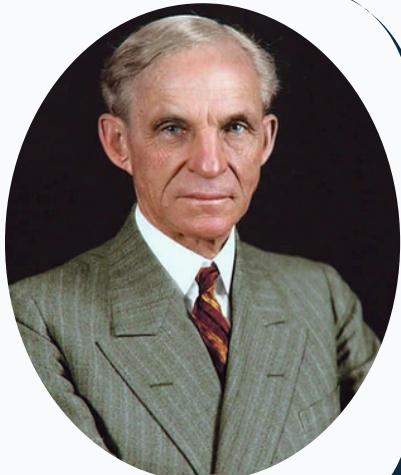
Chris Grosser

"Opportunities don't happen. You create them."
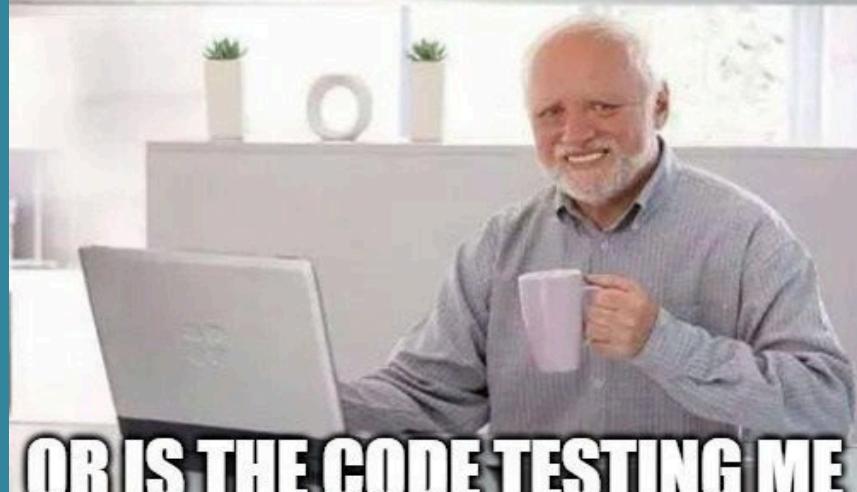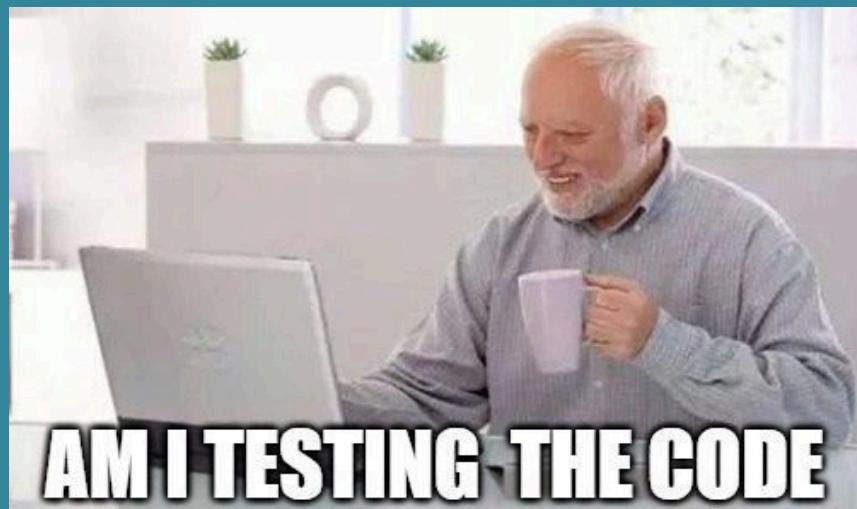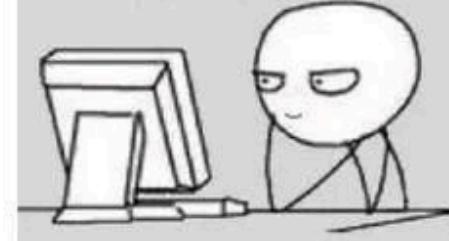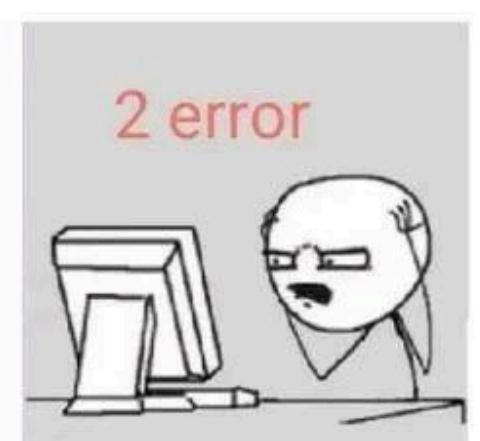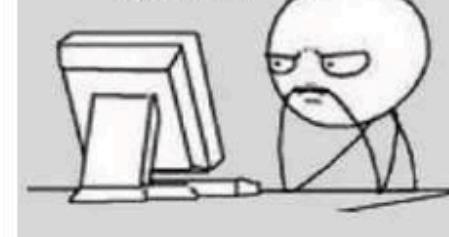
Tech Giggles

English Vocabulary Boost

SPEAK SMART
(Real-life Phrases)

Expressing Excitement
🚫 I'm happy.
✅ I'm thrilled about this opportunity!

Asking Politely
🚫 Give me your phone.
✅ Could you please hand me your phone for a moment?

WORD WISE
(Vocab Boost)

Idea
Advanced: Concept / Notion
Meaning: A thought or suggestion for a possible course of action.
Example: That's an interesting concept for a project.
Improve
Advanced: Enhance / Refine
Meaning: To make better or more effective.
Example: She refined her presentation after feedback.

SYNONYMS & ANTONYMS

Early
Synonyms: Prompt, On-time, Punctual
Antonyms: Late, Delayed, Tardy

Clean
Synonyms: Neat, Tidy, Spotless
Antonyms: Dirty, Messy, Polluted

GRAMMAR GYAN

Who / Whom
Who: Used as subject.
Example: Who is coming to the party?

Whom: Used as object.
Example: Whom did you meet yesterday?

Community & Feedback

Your Feedbacks are Really Valuable to Us

CLICK HERE

At Core Connect, no student misses out on tech trends, hackathons, or campus buzz! 🚀 Through our weekly newsletter, fun-filled events, and awareness sessions, we connect juniors and batchmates with exciting opportunities, career insights, and global happenings—while keeping things lively, engaging, and student-driven.

Become a Valuable Part of Our Community Just on a Click