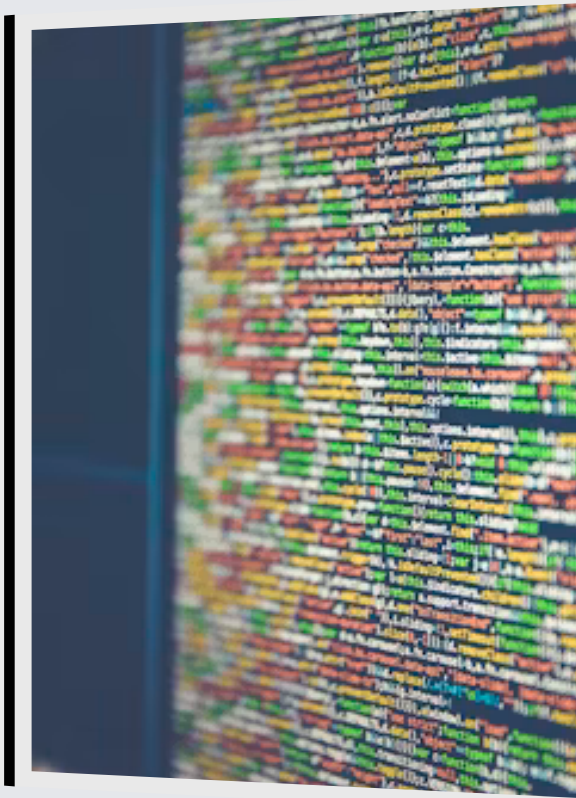


THE PROGRAMMERS' OASIS

16TH MAY 2024

THE OFFICIAL NEWSLETTER OF
PROGRAMMERS' PARADISE

[HTTPS://WWW.LINKEDIN.COM/COMPANY/PROGRAMMERS-PARADISE-CSVTU/](https://www.linkedin.com/company/programmers-paradise-csvtu/)



FROM THE DESK OF THE CLUB-IN CHARGE

DEAR MEMBERS,

IT IS WITH GREAT PLEASURE THAT I EXTEND MY WARMEST GREETINGS TO EACH AND EVERY ONE OF YOU AS WE EMBARK ON YET ANOTHER EXCITING CHAPTER IN OUR CODING JOURNEY HERE AT PROGRAMMERS' PARADISE.

AS THE CLUB IN-CHARGE, I AM HONORED TO LEAD SUCH A VIBRANT AND PASSIONATE COMMUNITY OF ASPIRING PROGRAMMERS AND TECH ENTHUSIASTS. OUR CLUB STANDS AS A BEACON OF INNOVATION, FOSTERING AN ENVIRONMENT WHERE CREATIVITY FLOURISHES, AND BOUNDARIES ARE PUSHED.

I AM INCREDIBLY PROUD OF THE DEDICATION AND ENTHUSIASM SHOWN BY ALL OUR MEMBERS. YOUR COMMITMENT TO HONING YOUR CODING SKILLS, COLLABORATING ON PROJECTS, AND EMBRACING NEW CHALLENGES TRULY EMBODIES THE SPIRIT OF PROGRAMMERS' PARADISE.

AS WE MOVE FORWARD, I ENCOURAGE EACH OF YOU TO SEIZE EVERY OPPORTUNITY THAT COMES YOUR WAY, WHETHER IT BE PARTICIPATING IN COMPETITIONS, ATTENDING WORKSHOPS, OR INITIATING YOUR OWN PROJECTS. REMEMBER, THE JOURNEY OF CODING IS NOT JUST ABOUT REACHING THE DESTINATION BUT ENJOYING EVERY STEP ALONG THE WAY.

TOGETHER, LET US CONTINUE TO INSPIRE, LEARN, AND GROW, AS WE STRIVE TOWARDS EXCELLENCE IN CODING AND BEYOND.

"Programs must be written for people to read, and only incidentally for machines to execute."

- Harold Abelson

Our Vision



AT PROGRAMMERS' PARADISE, OUR VISION IS TO CULTIVATE A DYNAMIC COMMUNITY WHERE STUDENTS NOT ONLY EXCEL IN CODING BUT ALSO BECOME INNOVATORS AND LEADERS IN THE EVER-EVOLVING LANDSCAPE OF TECHNOLOGY. WE ENVISION A FUTURE WHERE EVERY MEMBER HARNESSSES THEIR POTENTIAL, LEVERAGING OUR PLATFORM TO PUSH THE BOUNDARIES OF CREATIVITY AND PROBLEM-SOLVING.

THROUGH A BLEND OF COLLABORATIVE PROJECTS, WORKSHOPS, AND COMPETITIVE PROGRAMMING EVENTS, WE ASPIRE TO EQUIP OUR MEMBERS WITH THE SKILLS AND MINDSET NEEDED TO THRIVE IN THE DIGITAL AGE. WE ENVISION A CULTURE WHERE LEARNING KNOWS NO BOUNDS, WHERE CURIOSITY IS CELEBRATED, AND WHERE EVERY CHALLENGE IS SEEN AS AN OPPORTUNITY FOR GROWTH.

WITH PASSIONATE LEADERSHIP AND UNWAVERING DEDICATION, WE AIM TO CREATE AN ENVIRONMENT WHERE STUDENTS FEEL EMPOWERED TO PURSUE THEIR ASPIRATIONS, EXPLORE NEW HORIZONS, AND LEAVE A LASTING IMPACT ON THE WORLD THROUGH THE POWER OF CODE. TOGETHER, WE ARE SHAPING THE FUTURE OF TECHNOLOGY, ONE LINE OF CODE AT A TIME.

Reflecting on our Past Club Events

SEMINAR

PROGRAMMERS' PARADISE HOSTS SEMINAR ON THE IMPORTANCE OF COMPETITIVE PROGRAMMING

COMPETITIVE PROGRAMMING ISN'T MERELY ABOUT WINNING COMPETITIONS; IT SERVES AS A VITAL TRAINING GROUND FOR SHARPENING PROBLEM-SOLVING SKILLS, ENHANCING ALGORITHMIC THINKING, AND FOSTERING CREATIVITY. BY ACTIVELY ENGAGING IN COMPETITIVE PROGRAMMING, PARTICIPANTS NOT ONLY REFINE THEIR TECHNICAL ABILITIES BUT ALSO LEARN TO THRIVE UNDER PRESSURE, COLLABORATE EFFECTIVELY, AND PERSIST THROUGH CHALLENGES.

UNDERSTANDING THE SIGNIFICANCE OF COMPETITIVE PROGRAMMING IN SHAPING WELL-ROUNDED DEVELOPERS, PROGRAMMERS' PARADISE ORGANIZED A SEMINAR ON APRIL 18TH, 2024. THE SEMINAR AIMED TO ENLIGHTEN ITS MEMBERS ABOUT THE KEY BENEFITS AND IMPORTANCE OF COMPETITIVE PROGRAMMING IN THEIR JOURNEY AS ASPIRING CODERS.

DURING THE EVENT, SPEAKERS EMPHASIZED THE TRANSFORMATIVE NATURE OF COMPETITIVE PROGRAMMING, HIGHLIGHTING ITS ROLE IN PROMOTING CONTINUOUS IMPROVEMENT AND THE ACQUISITION OF INVALUABLE SKILLS. PARTICIPANTS WERE ENCOURAGED TO EMBRACE THE CHALLENGES OF COMPETITIVE PROGRAMMING AS OPPORTUNITIES FOR GROWTH AND DEVELOPMENT.

THE SEMINAR UNDERScoreD THE NOTION THAT COMPETITIVE PROGRAMMING EXTENDS BEYOND THE PURSUIT OF ACCOLADES; IT REPRESENTS A JOURNEY OF SELF-DISCOVERY AND SKILL ENHANCEMENT. PROGRAMMERS' PARADISE REMAINS COMMITTED TO EQUIPPING ITS MEMBERS WITH THE KNOWLEDGE AND RESOURCES NEEDED TO EXCEL IN THE DYNAMIC FIELD OF PROGRAMMING.



COMPETITION



HACKERRANK COMPETITION IGNITES PASSION FOR COMPETITIVE PROGRAMMING

ON APRIL 20TH, CODING ENTHUSIASTS DIVED HEADFIRST INTO THE EXHILARATING REALM OF COMPETITIVE PROGRAMMING ON HACKERRANK. WITH ADRENALINE-PUMPING CHALLENGES AND INTENSE PROBLEM-SOLVING SESSIONS, PARTICIPANTS GAINED INVALUABLE FIRSTHAND EXPERIENCE IN THE ART OF ALGORITHMIC WARFARE.

FROM TACKLING COMPLEX PUZZLES TO OPTIMIZING CODE EFFICIENCY, EACH COMPETITOR EMBARKED ON A JOURNEY OF SKILL REFINEMENT AND STRATEGIC THINKING. THE COMPETITION WAS A CRUCIBLE WHERE CODING PROWESS WAS TESTED AND HONED AMIDST THE THRILL OF THE BATTLE.

EVERY LINE OF CODE WRITTEN WAS A STEP CLOSER TO MASTERY, CULMINATING IN A TRULY ELECTRIFYING EVENT WHERE PARTICIPANTS SHOWCASED THEIR TALENT AND PASSION FOR CODING.

THE WINNERS WHO EMERGED VICTORIOUS FROM THE COMPETITION WERE CELEBRATED FOR THEIR EXCEPTIONAL SKILLS AND DEDICATION. AMONG THEM WERE:

- RISHABH TIWARI, 6TH SEMESTER
- ASHIRWAD RAI, 4TH SEMESTER
- PEEHU AGRAWAL, 2ND SEMESTER

THEIR ACHIEVEMENTS NOT ONLY SYMBOLIZE INDIVIDUAL TRIUMPH BUT ALSO SERVE AS AN INSPIRATION FOR ASPIRING CODERS TO PUSH THEIR LIMITS AND EXCEL IN THE EVER-EVOLVING WORLD OF PROGRAMMING.

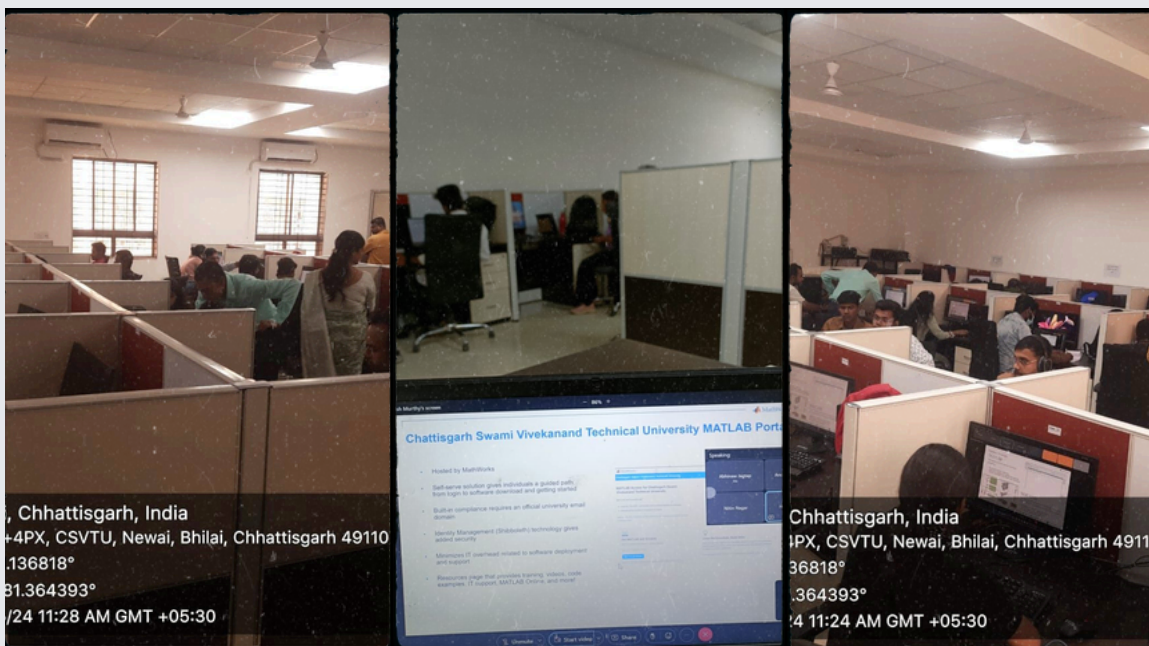


WORKSHOP

STUDENTS DIVE INTO MATLAB

MATLAB, THE RENOWNED "MATRIX LABORATORY," STANDS AS A CORNERSTONE IN THE REALM OF HIGH-LEVEL PROGRAMMING LANGUAGES, SPECIFICALLY TAILORED FOR NUMERICAL COMPUTING. WITH ITS ARRAY OF TOOLS CATERING TO DATA ANALYSIS, ALGORITHM DEVELOPMENT, SIMULATION, AND VISUALIZATION, MATLAB HAS SECURED ITS PLACE AS AN INDISPENSABLE RESOURCE ACROSS ACADEMIA, INDUSTRY, AND RESEARCH DOMAINS. TASKS RANGING FROM SIGNAL PROCESSING AND IMAGE PROCESSING TO CONTROL SYSTEMS DESIGN AND MACHINE LEARNING FIND THEIR SOLUTIONS WITHIN MATLAB'S VERSATILE FRAMEWORK. ON MAY 8TH, 2024, STUDENTS GATHERED AT CSVTU COMPUTER LABS FOR A SIX-HOUR MATLAB EVENT. THEY DELVED INTO MATLAB'S CAPABILITIES, ACCESSED RESOURCES, AND HONED PROBLEM-SOLVING TECHNIQUES. THE DAY ENDED WITH AN ON-RAMP CHALLENGE AND A THRILLING MATLAB CODY COMPETITION.

THE EVENT NOT ONLY PROVIDED STUDENTS WITH HANDS-ON EXPERIENCE BUT ALSO FOSTERED A COLLABORATIVE ENVIRONMENT CONDUCIVE TO LEARNING AND INNOVATION. AS MATLAB CONTINUES TO PLAY A PIVOTAL ROLE IN SHAPING THE FUTURE OF NUMERICAL COMPUTING, EVENTS LIKE THESE SERVE AS INVALUABLE OPPORTUNITIES FOR ASPIRING ENGINEERS AND RESEARCHERS TO REFINE THEIR SKILLS AND EXPLORE THE ENDLESS POSSIBILITIES OFFERED BY THIS POWERFUL PLATFORM.



OUR UPCOMING EVENTS

KRYPTO SLEUTH



UNLOCK THE SECRETS OF CRYPTOGRAPHY IN OUR ENCRYPTION COMPETITION!

IN AN ERA WHERE SAFEGUARDING DATA IS PARAMOUNT, THE ART OF ENCRYPTION AND DECRYPTION HAS EVOLVED INTO AN INDISPENSABLE SKILL. WHETHER YOU'RE A SEASONED CRYPTOGRAPHER OR AN ASPIRING ENTHUSIAST EAGER TO EXPLORE THE INTRICACIES OF ENCRYPTION, OUR COMPETITION OFFERS THE PERFECT STAGE TO DEMONSTRATE YOUR TALENT, INGENUITY, AND PROBLEM-SOLVING ACUMEN.

EVENT DATES: MAY 16 - JUNE 6, 2024
EVENT TYPE: OPEN FOR ALL COMPETITION

DURING THIS CAPTIVATING EVENT, PARTICIPANTS WILL ENCOUNTER A SERIES OF CRYPTOGRAPHY CHALLENGES, SPANNING FROM TRADITIONAL CYPHERS TO CUTTING-EDGE ENCRYPTION TECHNIQUES. TEST YOUR METTLE AS YOU UNRAVEL CODES AND DECODE HIDDEN MESSAGES, SHOWCASING YOUR PROFICIENCY IN THE FASCINATING REALM OF CRYPTOGRAPHY.

BEYOND THE THRILL OF COMPETITION, THIS EVENT SERVES AS A HUB FOR KNOWLEDGE EXCHANGE AND COLLABORATION. ENGAGE WITH FELLOW PARTICIPANTS, SHARE INSIGHTS, AND STAY ABREAST OF THE LATEST TRENDS AND INNOVATIONS IN DATA SECURITY.

EMBARK ON THE CRYPTOGRAPHY JOURNEY! SEIZE THIS EXHILARATING OPPORTUNITY TO EXHIBIT YOUR EXPERTISE AND GLEAN VALUABLE INSIGHTS FROM FELLOW ENTHUSIASTS. DON'T HESITATE - TO SIGN UP NOW AND PLUNGE INTO THE ADVENTURE OF ENCRYPTION!

FOR MORE DETAILS AND TO PARTICIPATE, VISIT:
PROGRAMMERS' PARADISE - KRYPTO SLEUTH
([HTTPS://GITHUB.COM/PROGRAMMERS-PARADISE/KRYPTO_SLEUTH](https://github.com/programmers-paradise/krypto_sleuth))

Holidays With Code



PROGRAMMERS' PARADISE PRESENTS "HOLIDAYS WITH CODE" EVENT!

GET READY TO CELEBRATE THE HOLIDAYS WITH CODE AS PROGRAMMERS' PARADISE BRINGS YOU AN EXCITING EVENT TO HONE YOUR CODING SKILLS!

SAVE THE DATES:

- 1ST TEST: MAY 15, 2024
- 2ND TEST: MAY 20, 2024
- 3RD TEST: MAY 23, 2024

EVENT TYPE: OPEN FOR ALL COMPETITION

EVENT DETAILS: DIVE INTO A SERIES OF THREE TESTS OF VARIED LEVELS AND SHARPEN YOUR CODING SKILLS WITH US!

PARTICIPATION CERTIFICATES: RECEIVE EXCLUSIVE CERTIFICATES WITH UNIQUE CREDENTIALS, PERFECT FOR SHOWCASING YOUR ACHIEVEMENTS ON SOCIAL MEDIA!

FOR PRACTICE AND SAMPLE QUESTIONS, STUDENTS MAY REFER TO THE RECENTLY HELD HACKERRANK COMPETITION.

([HTTPS://WWW.HACKERRANK.COM/PROGRAMMERS-PARADISE-WEEKLY-CONTEST](https://www.hackerrank.com/programmers-paradise-weekly-contest))

PARTICIPATION FORM:

([HTTPS://FORMS.GLE/EN6XPVCUZOAKBRQE6](https://forms.gle/EN6XPVCUZOAKBRQE6))

DON'T MISS THIS OPPORTUNITY TO LEVEL UP YOUR CODING SKILLS AND MAKE THE MOST OF YOUR HOLIDAYS WITH PROGRAMMERS' PARADISE!

Member Selection Test



PROGRAMMERS' PARADISE MEMBER SELECTION TEST: MAY 18, 2024

ATTENTION ALL CURRENT AND PROSPECTIVE MEMBERS OF PROGRAMMERS' PARADISE! MARK YOUR CALENDARS FOR THE UPCOMING MEMBER SELECTION TEST, SCHEDULED FOR MAY 18, 2024.

HERE ARE THE DETAILS YOU NEED TO KNOW:

- TOTAL SEATS: 80
- RESERVED: 38
- REMAINING: 42
- 6TH SEMESTER: 12
- 4TH SEMESTER: 20
- 2ND SEMESTER: 10
- TIMING: 5:00 PM - 6:30 PM
- TAILORED QUESTIONS
- ICPC METHOD FOR LEADERBOARD
- RESULTS: NEXT DAY
- MANDATORY: PARTICIPATION IN THE "HOLIDAYS WITH CODE" EVENT
- NO FURTHER RECRUITMENT

PREPARE YOURSELVES FOR THIS OPPORTUNITY TO JOIN PROGRAMMERS' PARADISE!

PARTICIPATION LINKS:

2ND SEMESTER: [HTTPS://WWW.HACKERRANK.COM/MEMBER-SELECTION-TEST-SEM-2](https://www.hackerrank.com/member-selection-test-sem-2)

4TH SEMESTER: [HTTPS://WWW.HACKERRANK.COM/MEMBER-SELECTION-TEST-SEM-4](https://www.hackerrank.com/member-selection-test-sem-4)

6TH SEMESTER: [HTTPS://WWW.HACKERRANK.COM/MEMBER-SELECTION-TEST-SEM-6](https://www.hackerrank.com/member-selection-test-sem-6)

STAY TUNED FOR UPDATES AND BEST OF LUCK TO ALL PARTICIPANTS!

"Enigma Enclave: The Riddle Roundup"

A SCHOOL HAS EXACTLY ONE THOUSAND LOCKERS, NUMBERED FROM 1-1000, AS WELL AS ONE THOUSAND STUDENTS. EACH YEAR, THE PRINCIPAL HAS CLOSING CEREMONIES ON THE LAST DAY OF SCHOOL, DURING WHICH SHE ENLISTS THE HELP OF HER STUDENTS TO CLOSE UP THE SCHOOL'S LOCKERS.

SHE ASSIGNS EACH STUDENT A NUMBER AND ASKS HIM OR HER TO HELP HER ONE BY ONE. THESE ARE THE INSTRUCTIONS SHE GIVES EACH OF THE STUDENTS.

STUDENT #1: GO TO EVERY LOCKER AND OPEN IT.

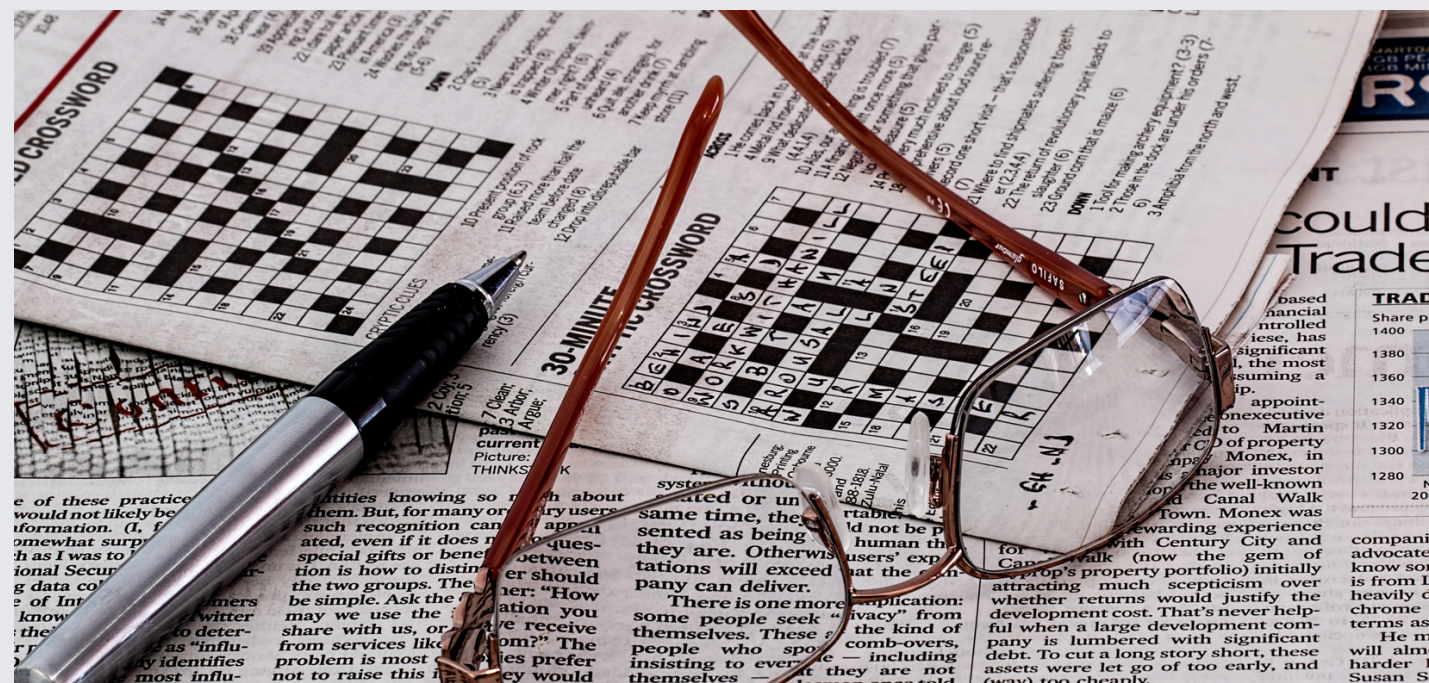
STUDENT #2: GO TO EVERY SECOND LOCKER AND CLOSE IT.

STUDENT #3: GO TO EVERY THIRD LOCKER. IF IT IS CLOSED, OPEN IT, AND IF IT IS OPEN, CLOSE IT.

STUDENT #4: GO TO EVERY FOURTH LOCKER. IF IT IS CLOSED, OPEN IT, AND IF IT IS OPEN, CLOSE IT.

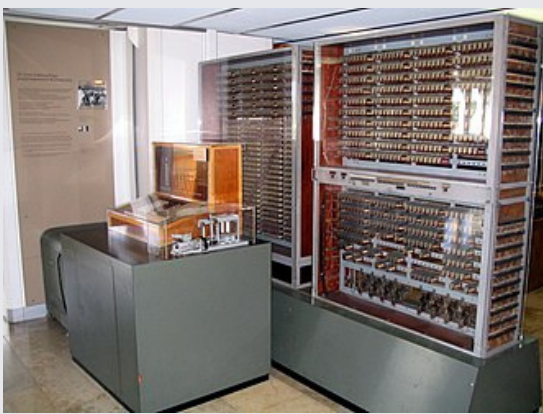
THIS GOES ON UNTIL STUDENT #1000 IS FINISHED.

AFTER THE CLOSING CEREMONIES ARE FINISHED, THE PRINCIPAL WALKS THROUGH THE SCHOOL AND CLOSES EACH LOCKER THAT IS LEFT OPEN. HOW MANY LOCKERS WILL THE PRINCIPAL CLOSE?



Unveiling the Tech Chronicles of May: A Journey Through History

AS WE EMBARK ON A JOURNEY THROUGH THE ANNALS OF TECHNOLOGY HISTORY, THE MONTH OF MAY REVEALS A TAPESTRY WOVEN WITH INNOVATION, DISCOVERY, AND MILESTONES THAT HAVE SHAPED THE DIGITAL LANDSCAPE WE INHABIT TODAY. FROM GROUNDBREAKING INVENTIONS TO SIGNIFICANT ADVANCEMENTS, LET'S TRAVERSE THROUGH TIME AND EXPLORE THE PIVOTAL MOMENTS THAT HAVE DEFINED THE MONTH OF MAY IN THE WORLD OF TECHNOLOGY.



May 12, 1941:

The Birth of Konrad Zuse's Z3, the First Programmable Computer Konrad Zuse, a German engineer, unveiled the Z3 computer, widely regarded as the world's first programmable, fully automatic digital computer. The Z3 marked a watershed moment in the history of computing, featuring binary arithmetic and the ability to execute complex programs through punched tape input. Zuse's groundbreaking invention laid the groundwork for modern computing architectures and paved the way for subsequent generations of computers.



MAY 1, 1973:

THE BIRTH OF ETHERNET

ROBERT METCALFE AND HIS TEAM AT XEROX'S PALO ALTO RESEARCH CENTER (PARC) DEMONSTRATED THE FIRST WORKING PROTOTYPE OF ETHERNET, A GROUNDBREAKING NETWORKING TECHNOLOGY THAT WOULD REVOLUTIONIZE COMPUTER NETWORKING. ETHERNET ENABLED THE SEAMLESS TRANSMISSION OF DATA BETWEEN COMPUTERS AND LAID THE FOUNDATION FOR LOCAL AREA NETWORKS (LANS) THAT WOULD BECOME UBIQUITOUS IN BUSINESSES, SCHOOLS, AND HOMES WORLDWIDE. ITS STANDARDIZED PROTOCOLS AND SCALABILITY FOSTERED THE GROWTH OF THE INTERNET AND TRANSFORMED THE WAY WE COMMUNICATE AND SHARE INFORMATION.



MAY 22, 1984:

THE DEBUT OF THE IBM PC/AT

IBM INTRODUCED THE PERSONAL COMPUTER/ADVANCED TECHNOLOGY (PC/AT), A SIGNIFICANT UPGRADE TO ITS POPULAR PC LINE OF COMPUTERS. THE PC/AT FEATURED THE INTEL 80286 MICROPROCESSOR, WHICH OFFERED ENHANCED PERFORMANCE AND EXPANDED MEMORY CAPABILITIES COMPARED TO ITS PREDECESSORS. THIS MILESTONE IN COMPUTING HISTORY SOLIDIFIED IBM'S POSITION AS A LEADER IN THE BURGEONING PC MARKET AND SET NEW STANDARDS FOR COMPATIBILITY AND PERFORMANCE THAT WOULD INFLUENCE FUTURE GENERATIONS OF PERSONAL COMPUTERS.

MAY 12, 1997:

THE DEEP BLUE VS. GARRY KASPAROV CHESS MATCH
IBM'S DEEP BLUE SUPERCOMPUTER MADE HISTORY BY
DEFEATING WORLD CHESS CHAMPION GARRY
KASPAROV IN A SIX-GAME MATCH. THIS VICTORY
REPRESENTED A MILESTONE IN ARTIFICIAL
INTELLIGENCE AND DEMONSTRATED THE POWER OF
COMPUTATIONAL ALGORITHMS IN SOLVING COMPLEX
PROBLEMS. DEEP BLUE'S TRIUMPH SHOWCASED THE
POTENTIAL OF MACHINE LEARNING AND COMPUTER
SCIENCE IN CHALLENGING HUMAN INTELLECT AND
SPARKED RENEWED INTEREST IN THE FIELD OF
ARTIFICIAL INTELLIGENCE.



MAY 18, 1998:

THE UNVEILING OF THE IMAC G3

APPLE INTRODUCED THE IMAC G3, A GROUNDBREAKING ALL-IN-ONE
DESKTOP COMPUTER THAT REDEFINED CONSUMER ELECTRONICS
DESIGN AND USABILITY. WITH ITS COLORFUL, TRANSLUCENT SHELL
AND INTEGRATED DISPLAY, THE IMAC G3 REPRESENTED A
DEPARTURE FROM TRADITIONAL BEIGE BOX PCS AND CAPTURED
THE IMAGINATION OF CONSUMERS WORLDWIDE. ITS INNOVATIVE
DESIGN, COUPLED WITH APPLE'S INTUITIVE SOFTWARE ECOSYSTEM,
REVITALIZED THE COMPANY'S BRAND AND SET THE STAGE FOR ITS
RESURGENCE AS A LEADER IN CONSUMER TECHNOLOGY.

