

IT

For individual
For business
Computers From past
and present

Presented by
Prajun Maharjan
Pranav Shrestha
Shreejal maharjan

What is IT ?

IT, which stands for Information Technology, is a broad field that covers everything related to computers, data, and systems that process and transmit information.

IT

From past and present

IT From past and present



Information technology (IT) is all around us, from computers and phones to the internet. But IT has a long History that is dated back from 3000 B.C to 20th century. people used different tools in the past to communicate, store information, and learn. IT has constantly improved over time, giving us the amazing technology we enjoy today.

IT From past and present



The history and the development of IT have divided into different stages. They are:-

- 1) Pre mechanical age
- 2) Mechanical age
- 3) Electromechanical age
- 4) Electronic age

1) Pre mechanical age (3000 B.C – 1450 A.D)

This age is the very beginning of the IT development. In this age people used basic tools like fingers, pebbles. In this age people started the system of writing for storing information that can be easily shared and understood paving the way for more advance method of information handling.



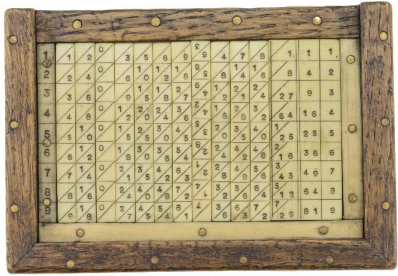
Abacus

This is the very first counting device developed by babylonia in 4th century which is use for counting purpose

2) Mechanical age (1450 A.D – 1840 A.D)

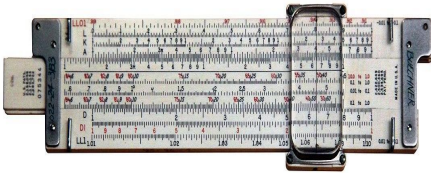
In this age many extraordinary invention took place where we can find similarities between our modern days computers. In this age printing press was invented making writing system much easier and faster which also led to techniques like book index and page number . These methods of organizing information paved the way of the development of files and databases

2) Mechanical age (1450 A.D – 1840 A.D)



Napier's bone (1614 A.D)

It is manually operated calculating device invented by John Napier which uses nine different bones to multiply and divide



Slide rule (1622 A.D)

It is the first analog device invented by William Oughtred for calculating multiplication, division, powers and roots



Pascaline (1644 A.D)

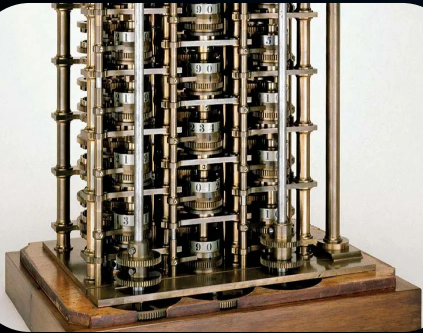
It is a calculating device invented by Blaise Pascal which performs addition and subtraction. Pascal invented this machine to help his father, a tax collector

2) Mechanical age (1450 A.D – 1840 A.D)



Leibniz machine (1694 A.D)

It is refined version of Pascaline invented by Gottfried Wilhelm von Leibniz which can not just add and subtract but can also multiply.



Difference engine (1822 A.D)

It is a calculating device invented by Charles Babbage to calculate differential equations which can store program, calculate problems and print results automatically.

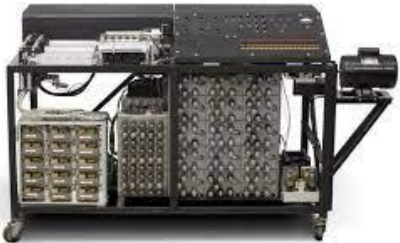
3) Electromechanical age (1840 A.D – 1940A.D)

This is the age where the beginning of telecommunication Emerged. In this age humanity achieved to use electricity. Many communication technologies like telegraph, radio, morse code and telephone were invented and developed .



Hollerith machine (1889 A.D)

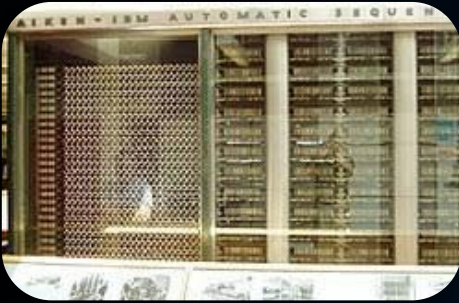
It is Invented by Herman Hollerith by applying jacquard loom concept. It can take census and show result in just 6 weeks which would have taken 10 yrs.



ABC- Atanasoft Berry Computer (1937 A.D)

It is an non-programmable computer invented by Atanasoft and Clifford Berry which used for solving linear equation. It used 18000 vaccume tudes

3) Electromechanical age (1840 A.D – 1940A.D)

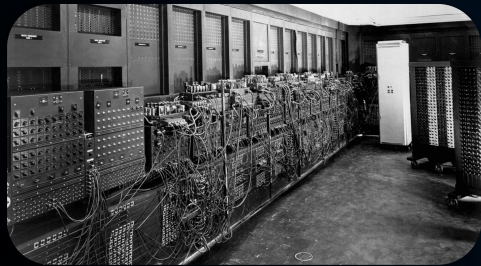


Harvard Mark I (1944 A.D)

It is the first programmable digital computer invented by Howard Aiken in U.S which is base on Charles babbage principal.it use for military projects, calculating massive mathematical tables.

4) Electronic age (1940 A.D – present)

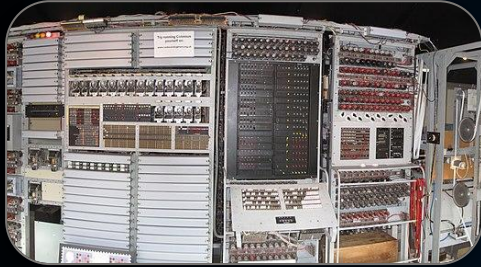
This is the age that we currently live in. In this age major invention and development of Information Technology took place from huge computer that used Vacuum tubes to today's small computer that uses Microprocessor were all developed in this age.



ENIAC (1945 A.D)

It stands for Electronic Numerical Integrator and Computer. It is the first general purpose electronic computer which was built for US army during World War II

4) Electronic age (1940 A.D – present)



Colossus (1943 A.D)

It is an electronic computer developed by British during World War II which was specifically designed for codebreaking. It is used for breaking German Enigma Codes



UNIVAC I (1951 A.D)

It stands for Universal Automatic Computer. It is the first business application computer invented by Remington which is used to do tasks like payroll processing and inventory management.



IBM 1401 (1958 A.D)

It is smaller, faster and more reliable computer that used transistor rather than vacuum tube making it popular among businesses for various tasks.

IT

For individual

IT For individual

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Information technology (IT) has become woven into the fabric of our daily lives, making things easier, faster, and more connected. We use IT for every bit of our day to day task from entertainment to education which have significantly improved our personal life. IT has provided us many facilities like:-

- 1) Communication
- 2) Entertainment
- 3) Education
- 4) Personal health

1) Communication

IT allows us to communicate instantly across the globe. we can chat , video call and send e-mails to our friends, family and co-worker. IT has also made us well informed about the international affairs. IT has helped disable people communicate through video call captioning, text to speech software and so on. Through IT tools like translator have made possible to communicate with foregin people with different language

2) Entertainment

IT plays an important role in entertainment since long time. IT has created and fascinated many fields in entertainment like creating music, in making movies through the help of CGI, enhancing gaming experience, Establishing virtual reality, by providing better facilitated social media and so on. All these activities are made possible through smart phone, PC, laptop etc.

3) Education

IT has enhanced education sector by creating more engaging, accessible, and personalized learning experience. Education have been more engaging and fun due to the provide facility of online learning, video learning and Interactive learning. IT has also provided us students free and Easy access on required knowledge.

4) Personal health

Through IT we can now track our health and take proper health decision on time. Through IT we can research symptoms, healthy diet, consult and take appointment with doctors through video calls, smart health apps have also helped us to track our heart rate, sleep patterns and so on

IT

For business

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IT has been in business sector since 19th century. IT is basically the backbone of any business organization nowadays without IT it will be hard for businesses to sale it product and earn any profit. IT provide business the facilities of storing data , data backup, data security, online marketing, online transaction and so on.

Facility provided by IT in business:-

- 1) Data security
- 2) Work efficiency
- 3) Improves management
- 4) Online marketing & advertising

1) Data security

IT plays an important role in keeping the important data, devices, and business system secure. IT keep these assets Secure through confidentiality, integrity, firewall, anti-virus software, encryption and So on.

2) Work efficiency

IT increases the work efficiency of the business through automating the repetitive task using software, connecting different department and group by establishing proper communication, analyzing data for proper decision making which ultimately leads business to increase its productivity.

3) Improves management

Now a days every businesses uses IT to manage their system.IT has made task like inventory management, monitoring employee performance easy and less time consuming. IT helps to store data Like business transaction protected by robust security.through IT we can share files and document easily without dealing with overwhelming paper works.IT also help automated the routine base works. Without using IT it will be hard for a business to succeed.

4) Online marketing & advertising

Since 1990s IT has drastically changed the way we do our transaction. IT has made transition easy by providing online marketing. Businesses like Amazon and eBay use Search Engine Optimization (SEO) to provide customer the product they are looking for. Through IT a business can learn about customer preference so that the business can provide best service. IT made business transaction and creative advertising easy, simple and economical. This way IT has enhanced and improved marketing experience.

THANK
YOU