

# Computer History

Arora Educator

Generation	Year	Use
1 <sup>st</sup> Generation	1945-1956	Vacuum Tube
2 <sup>nd</sup> Generation	1956-1963	Transistor Technology
3 <sup>rd</sup> Generation	1964-1971	IC (Integrated Circuit) Technology
4 <sup>th</sup> Generation	1971-present	LSI (Large Scale Integration) VLSI (Chips + Semiconductor)
5 <sup>th</sup> Generation	Present & beyond	Recent advances



11:13

Arora Educator

VoIP 5G 61

## Punch Card :

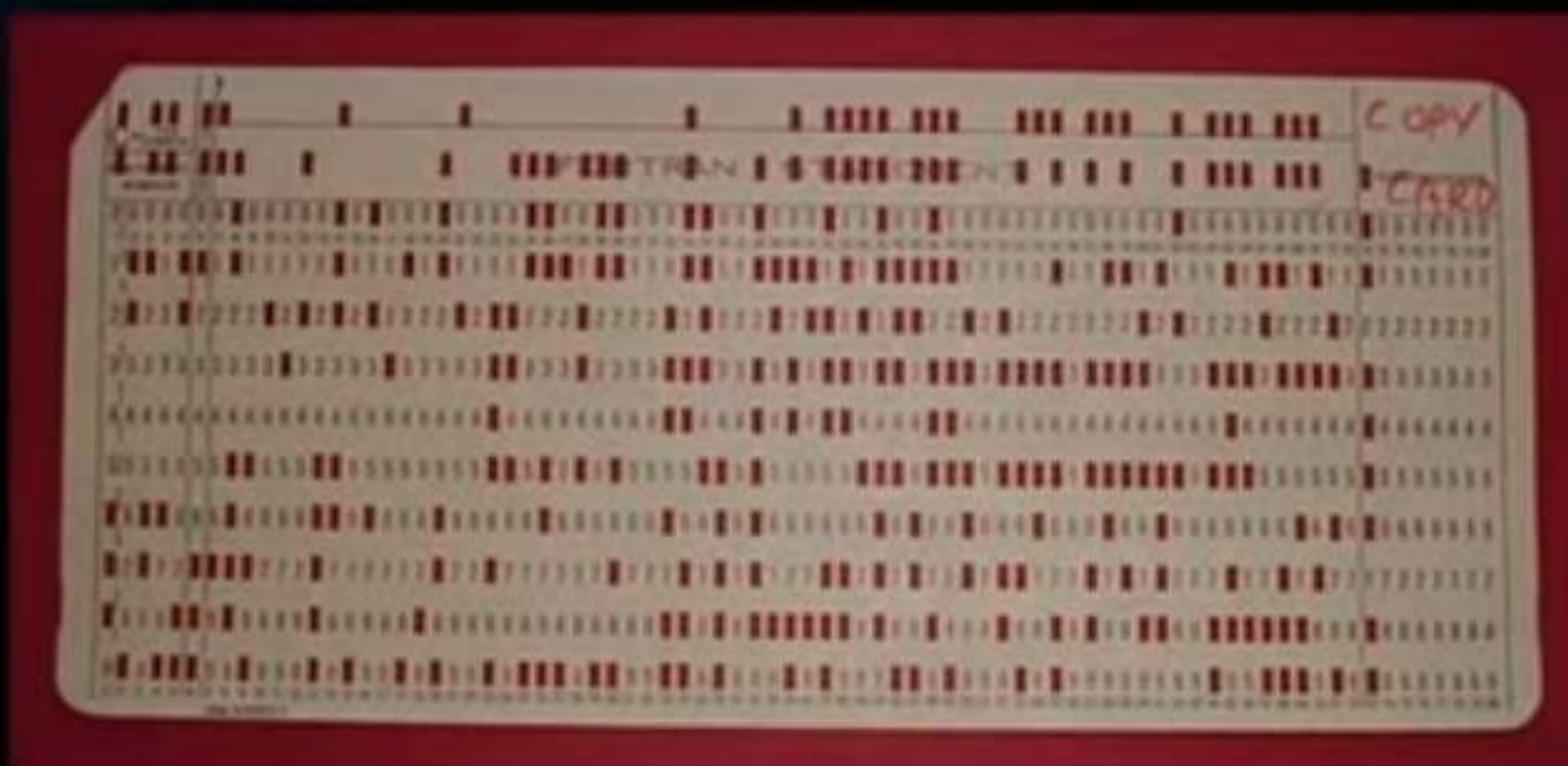
- ✓ Punch Cards was used for = Data Processing
- ✓ Punch Card also called = Hollerith cards or IBM cards.
- ✓ Invented By = Herman Hollerith





# Punch Card :

- ✓ Punched cards were adopted for use in the = 1890 census
- ✓ Still Used = to record votes





# Computers Used:

Arora Educator

First Gen    Second Gen = (5 Computers)

ENIAC        IBM-1620

EDVAC        IBM-7094

UNIVAC       CDC-1604

IBM-701      CDC-3600

IBM-650



# Computers Used:

Arora Educator

Third Gen = (3 Computers)

Honeywell 6000

PDP = Personal Data Processor

TDC-316 = Torpedo Data  
Computer





- ✓ First Digital Computer = ENIAC
- ✓ First Electronic Computer = ENIAC
- ✓ First Personal Computer = ALTAIR
- ✓ First PC in India = HCL 8C

**Arora Educator**



- ✓ Who invented (company) 1st GUI = Xerox PARC by = Alan Kay
  - Laser Printers
  - Bitmap Graphics
  - GUI

Arora Educator





# Computers Used:

Fifth Gen = (5 Computers)

Desktop

Laptop

Notebook

Ultrabook

Chromebook

Arora Educator





# Computers Used:

Fourth Gen = (4 Computers)

DEC 10

STAR 1000

CRAY-1(Super Computer)

CRAY-X-MP(Super Computer)

Arora Educator



**Arora Educator**

**First Operating System = General Motors**

**First Browser = WWW**

**First GUI Browser = Mosaic**

**First Search Engine = Archie**





✓ World's first laptop PC =  
Toshiba (April 1985)

Arora Educator



✓ First computer developed in  
India = TIFRAC

Tata Institute of Fundamental Research  
Automatic Calculator

Arora Educator





- ✓ India's First Computer = TDC12
- ✓ First Computer made in India = Siddharth
- ✓ Who is the founder of Computer in India = Vijay Pandurang Bhatkar

Arora Educator



**Arora Educator**

**First Calculating Machine = ABACUS**

**First Hard Disk = IBM**

**First Processor = Intel 4004**





**Arora Educator**

**First Made In India Computer = Siddharth**

**First Digital Computer = ENIAC**

**First World's Laptop = Toshiba (April 1985)**

**First ISP (India) = VSNL (Videsh Sanchar Nigam Limited)**



**Arora Educator**

**First Antivirus = Reaper**

**First Website = CERN**

**First Mobile Phone = Motorola**

**First Personal Computer**





**Arora Educator**

**First Network = ARPANET**

**First Android Smartphone = HTC Dream**

**First VIRUS = Creeper**

**First Boot Sector Virus = Brain**



**Arora Educator**

**First robot to receive citizenship of any country. = Sophia**

**= Saudi Arabian Citizen**

**= October 2017**





## Computer History

Arora Educator

**Q. - First computer made in India is ?**

a) PASCAL

b) LOGIC

c) SIDDHARTH

d) PARAM

e) CRAY



## Computer History

Arora Educator

### Siddharth :

- ✓ First Computer **made in India**.
- ✓ **Manufactured By** : Electronics Corporation of India.
- ✓ First computer in India was installed in : 'Main Post Office of Bangalore'.
- ✓ Installed on : August 16, 1986





## Computer History

Arora Educator

**Q. - First computer developed in India is ?**

a) PASCAL

**b) TIRFAC**

c) SIDDHARTH

d) PARAM

e) CRAY



# Computer History

Arora Educator

## ENIAC :

- ✓ Stands for : Electronic Numerical Integrator and Computer.
- ✓ First electronic general-purpose digital computer.
- ✓ Founder : John Mauchly, J. Presper Eckert
- ✓ Year : 1946
- ✓ Used 18,000 Vacuum Tubes





9:24

# Computer History

Arora Educator

VoD  
5G

96

## ENIAC :



## Computer History

Arora Educator

Q. – Name the first Electronic Programmable Computer ?

- a) PASCAL
- b) SIDHARTH
- c) COBOL
- d) MARK-1
- e) ENIAC





## Computer History

Arora Educator

### **TIRFAC : (Tata Institute of Fundamental Research Automatic Calculator)**

- ✓ First Computer **developed in India.**
- ✓ Developed at : Tata Institute of Fundamental Research in Mumbai.
- ✓ Commissioned in = February 22, 1960
- ✓ Used in = 1965



# Computer History

Arora Educator

## FIRST NETWORK

- ✓ NAMED = ARPANET
- ✓ STANDS FOR = Advanced Research  
Projects Agency Network
- ✓ FORM = 1966
- ✓ TYPE = PACKET SWITCHING NETWORK





# Computer History

Arora Educator

## FIRST COMPUTER GAME

- ✓ NAMED = SPACEWAR
- ✓ DEVELOPED IN = 1962
- ✓ RAN ON = PDP-1 COMPUTER
- ✓ DEVELOPED BY = STEVE RUSSELL
- ✓ TYPE = PACKET SWITCHING NETWORK
- ✓ FIRST VIDEO GAME = ATARI = 1973



## Analytical Engine :

- ✓ The Analytical Engine was a mechanical general-purpose computer.
- ✓ Designed By : Charles Babbage.
- ✓ Year : 1837
- ✓ Analytical Engine is used to calculate the numerical value of trigonometric functions of any formula.





## Computer History

Arora Educator

Q. – Name the first Mechanical general purpose Computer ?

- a) PASCAL
- b) SIDHARTH
- c) BASIC
- d) Analytical Engine
- e) ENIAC



# Computer History

Arora Educator

## FIRST SOFTWARE

- ✓ Written By = Ada Lovelace
- ✓ Year = 1842
- ✓ World's First Computer Programmer
- ✓ Computer = Analytical Engine
- ✓ Programming Language = Ada





# Computer History

Arora Educator

## First Mobile Phone

- ✓ **Founder : Martin Cooper**
- ✓ **Launched : 3 April 1973**
- ✓ **Company : Motorola**
- ✓ **Weight : 1.1 kilograms**
- ✓ **Re-charge Time : 10 Hours**



# Computer History

Arora Educator

## First Search Engine

- ✓ Name : Archie
- ✓ Launched : 10 September 1990
- ✓ Founder : Alan Emtage
- ✓ He is : Student at McGill University
- ✓ Tool For : Indexing FTP archives





# Computer History

Arora Educator

## First Graphical Browser

- ✓ Name : Mosaic
- ✓ Developed By : Marc Andreessen & Jamie Zawinski
- ✓ Type : Proprietary software
- ✓ Programming Language : C



# Computer History

Arora Educator

## Laptop Invented By

- ✓ Named = Osborne 1
- ✓ Invented By = Adam Osborne
- ✓ Year = 1981
- ✓ It cost = \$1795 at the time of release
- ✓ Screen Size = 5 inches long
- ✓ Weighed = 25 pounds





# Computer History

Arora Educator

## First VIRUS

- ✓ Named = Creeper
- ✓ Written By = Bob Thomas
- ✓ Year = 1971
- ✓ Spread Through = PDP-10 Computers
- ✓ VIRUS Message = I'm the creeper, catch me if you can!



# Computer History

Arora Educator

## First Antivirus

- ✓ Named = Reaper
- ✓ Developed By = Ray Tomlinson
- ✓ Year = 1971
- ✓ Used to Remove First VIRUS = Creeper
- ✓ Note = Reaper was also a virus, used to remove the Creeper from infected computers.





# Computer History

Arora Educator

## First Web Page

- ✓ First Web Page Name → CERN
- ✓ First Web Page Live on → August 6, 1991
- ✓ First Web Page made by → Tim Berners-Lee
- ✓ First Web Page Ran on → NeXT computer
- ✓ First Web Page Address For →  
<http://info.cern.ch/hypertext/WWW/TheProject.html>
- ✓ CERN → European Organization For Nuclear Research





# Computer History

Arora Educator

## First Microprocessor

- ✓ Named = Intel 4004
- ✓ BIT = 4 BIT CPU
- ✓ Released By = Intel Corporation
- ✓ Year = 1971
- ✓ Using = Metal Oxide Semiconductor (MOS)
- ✓ Technology = Silicon technology





# Computer History

Arora Educator

## First Keyboard Layout

- ✓ Named = QWERTY Layout
- ✓ American Inventor = Christopher Latham Sholes
- ✓ Year = July 1, 1874
- ✓ Fastest Typist (World) = 212 WPM (Dvorak KB)
- ✓ Average wpm speed is = 41 WPM
- ✓ Why not ABCD = Slow down typing and prevent Key Jams



# Computer History

Arora Educator

## First Computer Language

- ✓ Named = FORTRAN
- ✓ Stands For = Formula Translation
- ✓ Year = 1957
- ✓ Designed at = IBM
- ✓ Used For = Scientific Computing
- ✓ Designed By = John Backus





# Computer History

Arora Educator

## First Robot

- ✓ Named = Unimate
- ✓ Invented By = George Devol
- ✓ Year = 1954
- ✓ Type = First Industrial Robot
- ✓ Used By = Car makers to automate metalworking and welding processes.



# Computer History

Arora Educator

## Compact Disk (CD)

- ✓ Created By = James Russell
- ✓ Type = Optical Disk
- ✓ Year = 1979
- ✓ Size = 700 MB
- ✓ Types = CD-ROM, CD-RW





# Computer History

Arora Educator

## First Hard Drive

- ✓ Created By = IBM
- ✓ Founder = Reynold B. Johnson
- ✓ Sold in = 1956
- ✓ Capacity = 5 MB
- ✓ Used in System = RAMAC 305 system



# Computer History

Arora Educator

## Extensions

- ✓ Android Apps = .apk
- ✓ iOS Apps = .ipa
- ✓ APK Stands for = Android Package Kit
- ✓ IPA Stands for = iPhone Application

Archive





# Computer History

Arora Educator

## First Mobile OS

- ✓ Named = Symbian
- ✓ Developer = Nokia
- ✓ Year = 1998
- ✓ Type = Closed Source OS
- ✓ Written = C++
- ✓ OS Family = RTOS

symbian  
OS



# Computer History

Arora Educator

## Pen Drive

- ✓ Invented = 1998
- ✓ Company = IBM
- ✓ To Replace = Floppy Drive
- ✓ Indian Founder (USB) = Ajay Bhatt
- ✓ Flash Drive Founder = Dov Moran ( M - systems )





# Computer History

Arora Educator

## Fastest Processor in Mobile

- ✓ Snapdragon 845
- ✓ Company : Qualcomm
- ✓ Intelligent personal assistant
- ✓ Delivers up to 1.2 Gbps peak download speeds

