

tutorial 01:-

Q-01) Explain about the computer generations and write down the technologies used.

* abacus which is founded by Chinese is considered as the first ever machine to perform a task. The Charles Babbage discovered the first mechanical computer.

Generation	Technology used.
• First generation	<ul style="list-style-type: none">• Vacuum tube.• machine language.• main memory - magnetic tapes and magnetic drums.• input/output devices - paper tapes and punch cards.• speed and size - very slow and very large.• ex - IBM 650, DBM 701, ENIAC.
• second generation	<ul style="list-style-type: none">• transistor• programming language - machine, assembly language.• memory - magnetic core and magnetic tape/disk.• input/output - magnetic tape, punch card.• power and size - smaller in size, low power consumption. generates less amount of heat.• ex - PDP-8, CDC 3600, UNIVAC 1107.

<ul style="list-style-type: none"> • Third generation 	<ul style="list-style-type: none"> • integrated circuits. • high level language. • large magnetic core, magnetic tape / disk. • input/output - magnetic tape, monitor, keyboard, printer. • ex - DBM 360.
<ul style="list-style-type: none"> • Fourth generation 	<ul style="list-style-type: none"> • very large scale integration (VLSI) and microprocessor (VLSI has thousands of transistors on a single microchip) • semi conductor memory (such as RAM, ROM) • input/output = pointing devices, optical scanning, keyboard, monitor, printer. • ex - DBM PC, STAR 1000, APPLE II
<ul style="list-style-type: none"> • Fifth generation 	<ul style="list-style-type: none"> • based on AI, uses large scale integration technology and parallel processing method. • language - understand human/natural language • portable and small in size • track pad, touch screen, pen, speech input, light scanner, printer, keyboard, monitor, mouse • ex - desktop, laptop, tablets, smartphones.