# Computer past and present

The earlier versions of computer were huge bulky and used up all the space in a room .the device “EDSAC “was one of the first computer that could implement the stored program architecture. The first computer generally referred as “analytical engine”were designed by Charles Babbage dating back to 19th century.ENIAC”was the first electronic, Turing-complete device.Baggae developed plans for the Analytical engine which laid the foundation for modern digital computer; in that device he envisioned the capability of performing any arithmetical operation on the basic of instruction from punched card. As with the Difference Engine, the project was far more complex than anything theretofore built, and it wasn’t until 1991 that his ideas were finally translated into functioning computer.

A computer is an appliance which can manipulate data according to an given list of instruction. The first modern day computer was developed in the mid 20th century, with the foundation laid by the similar machine back in days. This time integrated chips are used for processing. Modern computer often have a von Neumann architecture, which involves: a processor, a memory unit which stores both instruction and data, connections for input and output devices and secondary storage for data. Modern computers are capable of performing complex tasks ranging from gaming and creative work to artificial intelligence and large-scale data processing. Their performance is driven by advances in processing power (CPUs, GPUs), storage technologies (SSDs, cloud), and networking (5G, Wi-Fi 6).

Computer has become an indispensible part of human life .What makes an computer highly versatile? A calculator can only calculate, just like a washing machine can only wash, but a computer can be programmed to do any kind of job. Software programs are a list of instructions that can be stored and executed by the computer that’s makes a computer highly useful and versatile machine

Comparing modern computer and earlier computer we can see that, speed has increased the modern computer is capable of billions or trillions of operations per second. Earlier compute used magnetic tapes punch cards for storage while modern used cloud storage and SSDs which is vast and faster, modern computer allows programming in high level language with powerful libraries. The problem which could have taken days to solve can be solved in short and real time through modern computing.