

# Computer Evolution

## Where did computers originate from?



## First Generation Computers

- Used vacuum tubes as an amplifier and a switch and magnetic drums for memory.
- Used punch cards to store and retrieve data.
- Used binary programming.
- Used a lot of energy, which generated a lot of heat.
- Used magnetic tape for data storage.
- Used for scientific and business applications.
- Used for data processing for large and medium-sized organizations.



## Third Generation Computer

- Integrated circuits replacing the use of transistors marked the coming of third generation computers.
- Transistors were replaced by silicon chips called microprocessors, which increased the speed and efficiency of computers.
- Microprocessors were used for embedded systems and used for manufacturing devices.
- Advancing performance allowed the device to run different applications at one time.



## Second Generation Computer

- Transistors replaced vacuum tubes and made computers smaller, efficient, and much more energy-efficient.
- Used assembly language, machine language, and FORTRAN were introduced as a high-level language programming.
- The first second generation computer was developed for an atomic energy industry.



## Fifth Generation Computer

- In their development phase.
- Based on Artificial Intelligence.
- Supposedly able to carry out natural processing.
- Supports voice recognition.
- The objective of the fifth generation is to understand natural language and have self-organization skills.



Started in the 1950s with an emphasis on artificial intelligence. The focus was on developing computers that could simulate human intelligence. This led to the development of expert systems, which are programs that can solve complex problems by using a knowledge base and a set of rules. The fifth generation computer is still in its early stages, but it is expected to revolutionize the way we work and live.

## Father of the Computer

The first electronic computer was developed in the 1940s at the University of Pennsylvania. It was called the ENIAC (Electronic Numerical Integrator and Computer). It was the first general-purpose digital computer. It was built using vacuum tubes and was the largest computer ever built at that time. It was used for military calculations during World War II.

# GREAT COMPUTERS Harvard Case Solution & Analysis



TheCaseSolutions.com

International Business Machines Corporation (IBM) was founded in 1911 by Thomas J. Watson. The IBM manufactures and sells computer hardware and software.

# Computers?

The evolution of computers may never reach its very limits. As far as we can understand today, at the very best, most people predict that computers will evolve until they equal human intelligence.

This has its benefits, but also has higher risks.

In my own opinion, I see futuristic computers using holograms. Some day, there will be no more us of screens, and humans can interact with applications personally. But the coming of this device comes great responsibility. I hope that when the time comes, us humans have also matured.





