Computer Basics

What is a Computer ?

A computer is an electronic device that processes data according to instructions provided by software programs. It takes input (data), processes it using a central processing unit (CPU), stores information, and produces output (results) to perform various tasks.

Why Do We Need to Know About Computers?

Understanding computers is crucial in today's digital age as it helps individuals function effectively in various aspects of life, including education, work, and personal use. Computers have become indispensable in our daily lives, enabling us to perform tasks that were once difficult or time-consuming.

How Computers Changed Over Generations

The term generation of computers refers to the progression of advancements in hardware and software. These advancements are divided into five generations, each marked by improvements in processing power, size, efficiency, and overall capabilities. Starting with the early vacuum tube-based computers, each new generation has introduced faster, more powerful, and more efficient computers.

Evolution of Computers

First Generation	Second Generation	Third Generation	Fourth Generation	Future Generation
• 1940-1956 • Vacuum Tubes	• 1956-1963 • Transistors	• 1964-1971 • Integrated Circuits	• 1971 - Present • Microprocessors	• Present and Beyond • Artificial Intelligence