Core Components:

Hardware:

The physical components of a computer, such as the Central Processing Unit (CPU), memory (RAM), storage devices, input devices (keyboard, mouse), and output devices (monitor, printer).

Software:

The set of instructions (programs) that tell the hardware what to do.

Operating System:

Manages the computer's resources and provides a platform for running software.

Networking:

Understanding how computers connect and communicate with each other, including the internet.

Data Representation:

How information is stored and processed in a computer using binary code (0s and 1s).

• Algorithms and Logic:

Understanding the steps involved in solving problems using logical thinking and algorithms.

Key Concepts:

- **Input/Output:** The process of receiving data and presenting results.
- **Memory:** Temporary and permanent storage of data.
- Processing: How the CPU executes instructions and manipulates data.
- Networking: Connecting devices to share resources and information.
 Why are computer fundamentals important?
- **Digital Literacy:** Provides a foundation for understanding and using technology effectively in various aspects of life.
- Problem-Solving: Develops logical thinking and problem-solving skills.
- Career Opportunities: Essential for many jobs, especially in the IT field.
- Online Safety: Understanding online safety practices and protecting personal information.