

Definition of Computer

- A **programmable machine** that manipulates data based on instructions.

Generations of Computers

1. **First (1946-1958)**: Vacuum tubes, punch cards.
2. **Second (1959-1964)**: Transistors, assembly language.
3. **Third (1965-1970)**: Integrated circuits,
4. **Fourth (1971-today)**: Microprocessors,
5. **Fifth (Future)**: AI,

10 Questions & Answers

1. **What is a computer?**
 - A programmable machine that manipulates data based on instructions.
2. **What was the earliest computing device?**
 - **Abacus** (invented in 2400 B.C.).
3. **Who invented the first mechanical computer?**
 - **Charles Babbage** (Difference Engine, 1822).
4. **What was the significance of the Jacquard Loom?**
 - Used **punched cards** to automate weaving, inspiring early computing.
5. **Which was the first electronic general-purpose computer?**
 - **ENIAC** (1946).
6. **What replaced vacuum tubes in second-generation computers?**
 - **Transistors**.
7. **What technology defined the third generation of computers?**
 - **Integrated circuits (silicon chips)**.
8. **What major advancement came with fourth-generation computers?**

- **Microprocessors and GUIs.**

9. **What is the focus of fifth-generation computers?**

- **Artificial Intelligence (AI)** and self-learning systems.

10. **Who is considered the first computer programmer?**

- **Ada Lovelace**, who wrote algorithms for Babbage's Analytical Engine.