

O/L ICT

The Computer Generations



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Computer Generations

Computers have evolved through several generations, each marked by significant advancements in technology



First Generation

- Year Range : **1940s-1950s**
- Vacuum tubes used for processing
- Large size
- High power consumption
- Machine language and Assembly language
- **Notable Computers:** ENIAC, UNIVAC I.



Second Generation

- Year Range : **1950s-1960s**
- Transistors replaced vacuum tubes
- Smaller size
- Less heat generation
- Machine language and early High-Level Languages
- **Notable Computers:** IBM 1401, CDC 1604



Third Generation

- Year Range : **1960s-1970s**
- Integrated circuits (ICs) introduced
- Smaller size
- more powerful & faster
- High-level languages like COBOL, Fortran, and BASIC
- **Notable Computers:** IBM System/360, DEC PDP-11.



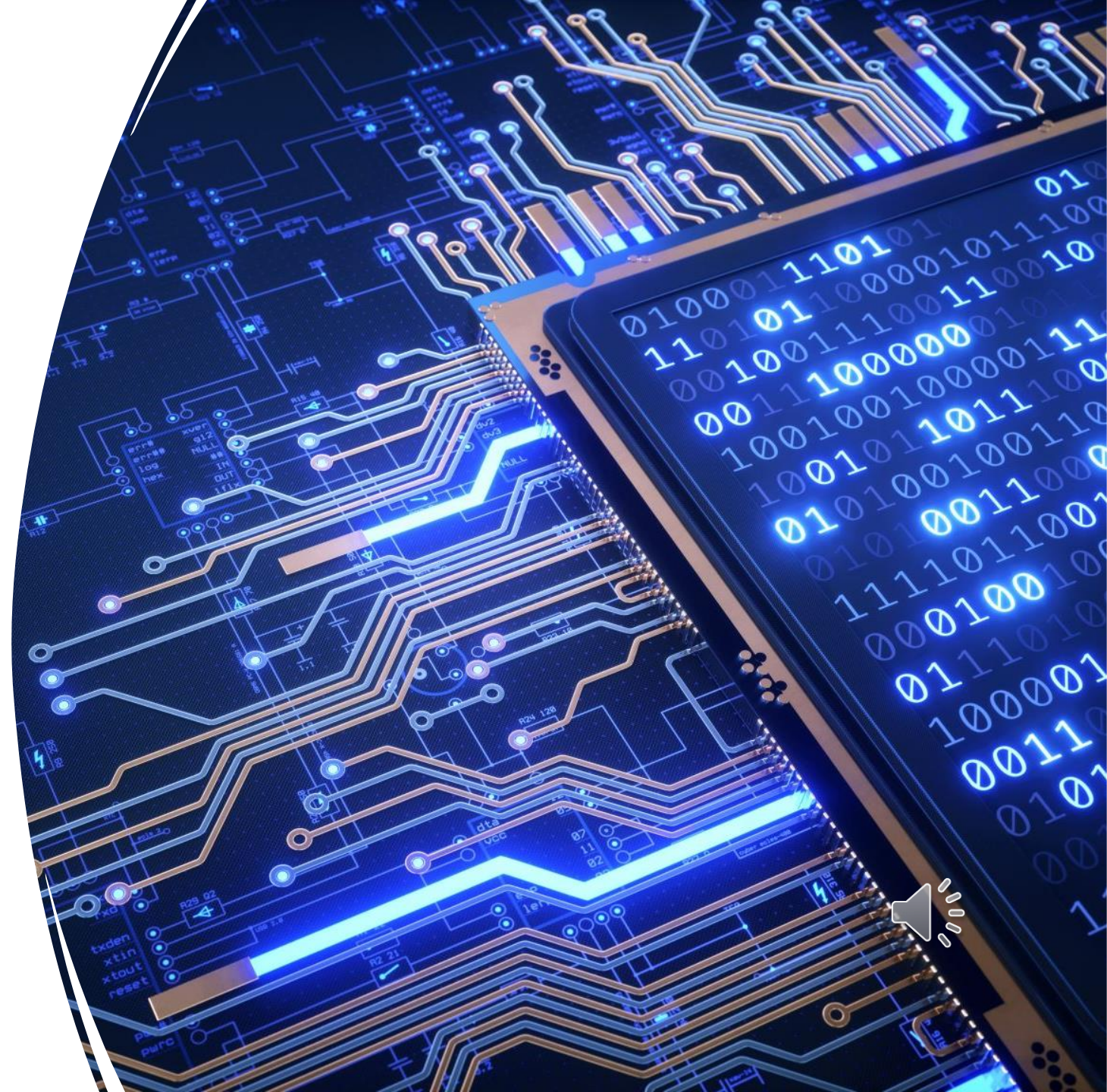
Fourth Generation

- Year Range : **1970s-1980s**
- Microprocessors emerged.
- Personal computers introduced.
- increased computing power.
- Diverse high-level languages; rise of software development.
- **Notable Computers:** IBM PC, Apple II.

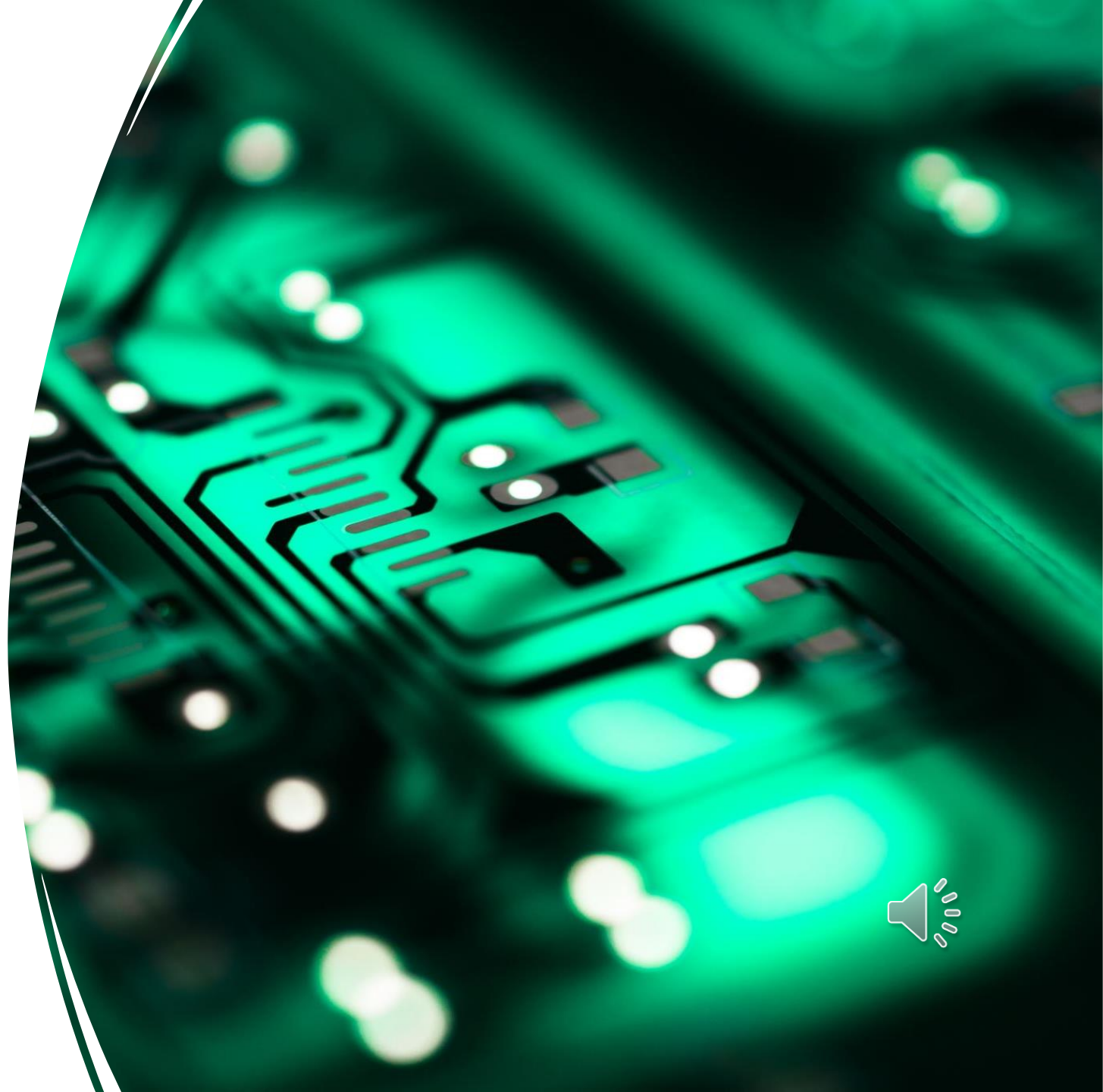


Fifth Generation

- Year Range : **1980s-Present**
- Introduction of parallel processing.
- artificial intelligence.
- advanced computing architectures.
- Increased use of microprocessors, the advent of the internet, widespread use of personal computers.
- Object-Oriented Programming.



Understanding the evolution of computer generations provides insights into the rapid advancements that have shaped the technology landscape, from room-sized machines with limited capabilities to the compact, powerful devices and cutting-edge technologies we use today.



Covered Points:

- Main Generations of the Computer Evolution
- Significant Characteristics
- Main Technologies used
- Basic Programming languages introduced.
- Notable Computers



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