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Introduction

Characteristic
of
Computers

Introduction
to Computer
Hardware and
Softwares

Fundamentals of Computer & OS Concepts

Session 1

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Definition

What is a Computer: is programmable electronic device that accepts raw data as input and processes it with a set of instructions (a program) to produce the result as output. It was derived from the Latin word which means, "Compute" - which means to calculate.

History of Computers.

Generally speaking, computers can be classified into three generations

① First generation : 1937 – 1946

- Developement of the ABC Computer by Developed Dr. John V. Atanasoff and Clifford Berry
- 1943 Computer name the Colossus was built for the military
- 1946 Electronic Numerical Integrator and Computer (ENIAC) was built



Brief Definition and History of Computers



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- ② Second generation: 1947 – 1962 - This generation of computers used transistors instead of vacuum tubes which were more reliable. In
 - 1951 - the first computer for commercial use was introduced to the public Universal Automatic Computer (UNIVAC 1)
 - 1953 - International Business Machine (IBM) 650 and 700 series. Over 100 computer programming languages were developed, computers had memory and operating systems. Storage media such as tape and disk were in use also were printers for output.
- ③ Third generation: 1963 - present
 - The invention of integrated circuit brought us the third generation of computers. With this invention computers became smaller, more powerful more reliable and they are able to run many different programs at the same time.
 - 1980 - Microsoft Disk Operating System (MS-Dos) was born and in 1981 IBM introduced the personal computer (PC) for home and office use. Three years later Apple gave us the Macintosh computer with its icon driven interface and the 90s gave us Windows operating system.



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Computers come in different size and shape but how do we classify them between each other?

- Speed



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Computers come in different size and shape but how do we classify them between each other?

- Speed
- Accuracy



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Computers come in different size and shape but how do we classify them between each other?

- Speed
- Accuracy
- Storage capability



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Computers come in different size and shape but how do we classify them between each other?

- Speed
- Accuracy
- Storage capability
- Versatility



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Computers come in different size and shape but how do we classify them between each other?

- Speed
- Accuracy
- Storage capability
- Versatility
- Diligence



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- Speed
- Accuracy
- Storage capability
- Versatility
- Diligence
- Reliability



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- Speed
- Accuracy
- Storage capability
- Versatility
- Diligence
- Reliability
- Resource sharing



Types of Computers



**Micro
Computer**



**Mini
Computer**



**Mainframe
Computer**



**Super
Computer**

Size and Speed





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