

Contents

1	Computer	1
1.1	Introduction	1
1.2	History	2
1.3	Genretions	2
1.4	Networking	3
	1.4.1 Advantages of Networking	3
	1.4.2 Types of Network	4
1.5	Computer Specifications	4
1.6	Computer In Today's World	4

ICT Assignment

Mohammad Usama ¹

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¹By M.Usama

Chapter 1

Computer

1.1 Introduction

A computer is an electronic device, operating under the control of instructions stored in its own memory that can accept data (input), process the data according to specified rules, produce information (output), and store the information for future use. Software is actually a computer program. To be more specific, a program is a set of step-by-step instructions that directs the computer to do the tasks you want it to do and to produce the results you want. A computer programmer is a person who writes programs. Most of us do not write programs, we use programs written by someone else. This means we are users - people who purchase and use computer software.



Figure 1.1: Computer

1.2 History

The computer as we know it today had its beginning with a 19th century English mathematics professor name Charles Babbage. He designed the Analytical Engine and it was this design that the basic framework of the computers of today are based on. It was called the Atanasoff-Berry Computer (ABC). In 1943 an electronic computer name the Colossus was built for the military. Other developments continued until in 1946 the first general- purpose digital computer, the Electronic Numerical Integrator and Computer (ENIAC) was built. It is said that this computer weighed 30 tons, and had 18,000 vacuum tubes which was used for processing. When this computer was turned on for the first time lights dim in sections of Philadelphia. Computers of this generation could only perform single task, and they had no operating system.

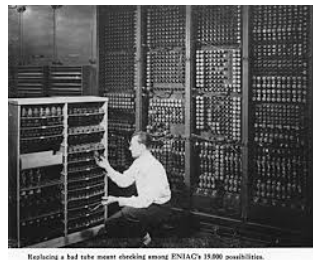


Figure 1.2: First Computer

1.3 Genretions

There are five computer generations known till date. Each generation has been discussed in detail along with their time period and characteristics. In the following table, approximate dates against each generation has been mentioned, which are normally accepted.

Following are the main five generations of computers.

1. The period of first generation: **1946-1959**. Vacuum tube based.
2. The period of second generation: **1959-1965**. Transistor based.
3. The period of third generation: **1965-1971**. Integrated Circuit based.

4. The period of fourth generation: **1971-1980**. VLSI microprocessor based
5. The period of fifth generation: **1980-onwards**. ULSI microprocessor based.

1.4 Networking



Figure 1.3: Networking

Above figure 1.3 is a computer networking is a process of connecting two more than two computers with the purpose to share data, provide technical support, and to communicate (*especially for the business purpose*.)

Internet is the technology that is used to connect different computer systems (*located in different geographic location*). Networking technology has revolutionized the world and created a new arena for the overall development of every nation.

1.4.1 Advantages of Networking

- Facility of Technical Support
- Easy Sharing of Data
- Easy Sharing of Hardware Resource
- Easy Sharing Software
- Easy to Decentralize Data Processing
- Easy to Communicate

1.4.2 Types of Network

1. Local Area Network (LAN)
2. Metropolitan Area Network (MAN)
3. Wide Area Network (WAN)

1.5 Computer Specifications

Type	Processor	RAM	ROM	Window
Intel Core i5	3.0GHz	8GB	1TB	Windows 10 Pro
Intel Core i7	3.0GHz	8GB	256GB	Windows 10 Pro
Intel Core i5	3.0GHz	8GB	1TB	DOS
Intel Core i3	3.6GHz	4GB	1TB	DOS
Intel Core i5	4GHz	8GB	1TB	Windows 8

1.6 Computer In Today's World



Figure 1.4: Today's Computer

Above is pic figure 1.4 of today's world computers which are very useful because there is weather forecasting and many other things. People can forecast weather by this process by computers . Advertising is one of the most progressive field these days . Computer animation is the art of creating moving images by this use of computers . We can use use internation network (internet) to check mail, play games, find other's addresses , etc. Scientists

also use computers for their experiments . There are some documents to type. For example MS Word , MS Exel , etc . We can do our school project also by using computers. There is one thing which is very convenient for us it is that we can talk or chat with people who are in another country by using google talk , yahoo messenger , etc.