Chapter III: Parts of a computer

I/ Warm-up

- 1/ Discuss these questions.
- *Have you got a computer? What kind is it?
- *How often do you use it? What do you use it for?
- *What are the main components and features of your computer system?
- 2/ In pairs, label the elements of this computer system.



II/ Reading

A/ Read the text below then and use the information in the text and the diagram to help you match the terms in the box with the appropriate explanation

a software b peripheral devices c monitor d floppy disk e hardware f input g port h output i central processing unit

1	The brain of the computer.	
2	Physical parts that make up a computer system.	
3	Programs which can be used on a particular computer system.	
1	The information which is presented to the computer.	
5	Results produced by a computer.	
6	Hardware equipment attached to the CPU.	
7	Visual display unit.	
8	Small device used to store information. Same as 'diskette'.	
9	Any socket or channel in a computer system into which an input/output	
	device may be connected.	

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What is a computer?

Computers are electronic machines which can accept data in a certain form, process the data and give the results of the processing in a specified format as information.

Three basic steps are involved in the process. *First*, data is fed into the computer's memory. *Then*, when the program is run, the computer performs a set of instructions and processes the data. *Finally*, we can see the results (the output) on the screen or in printed form (see the diagram on p. 8).

Information in the form of data and programs is known as **software**, and the electronic and mechanical parts that make up a computer system are called **hardware**. A standard computer system consists of three main

sections: the central processing unit (CPU), the main memory and the peripherals.

Perhaps the most influential component is the **central processing unit**. Its function is to execute program instructions and coordinate the activities of all the other units. In a way, it is the 'brain' of the computer. The **main memory** holds the instructions and data which are currently being processed by the CPU. The **peripherals** are the physical units attached to the computer. They include storage devices and input/output devices.

Storage devices (floppy, hard or optical disks) provide a permanent storage of both data and programs. **Disk drives** are used to handle one or more floppy disks. **Input devices** enable

. . . .

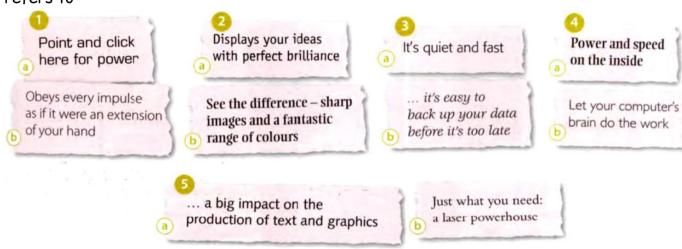
data to go into the computer's memory. The most common input devices are the **mouse** and the **keyboard**. **Output devices** enable us to extract the finished product from the system. For example, the computer shows the output on the **monitor** or prints the results onto paper by means of a **printer**.

On the rear panel of the computer there are several ports into which we can plug a wide range of peripherals – modems, fax machines, optical drives and scanners.

These are the main physical units of a computer system, generally known as the **configuration**.

Output Processor Input Expenses Balance (e.g. payroll, services, publicity) Income (e.g. sales, stocks, interest) **Processing** Result Data on the monitor or in printed form English for Computing First Year Bachelor's Degree Computer Science Department University of M'Sila

B/ Read these advertising slogans and say which computer element each pair refers to



C/ Find words in the slogans with the following meanings:

- 1. To press the mouse button.....
- 2. Clear; easy to see.....
- 3. To make an extra copy of something.....
- 4. Selection.....
- 5. Shows.....

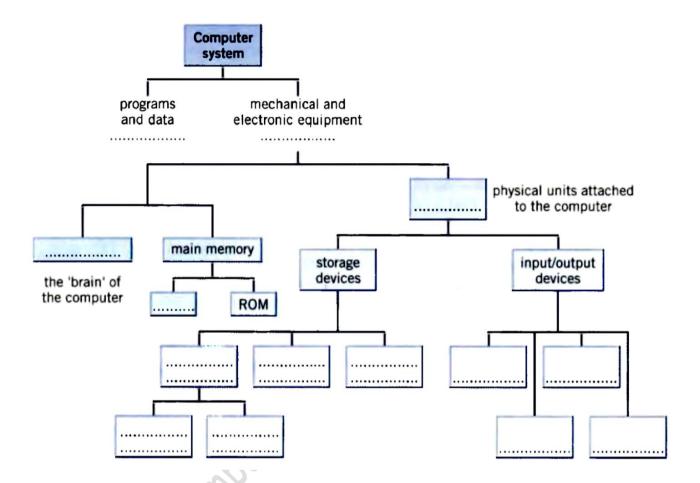
D/ Match these words (1-9) with the correct meanings (a-i)

- 1 software
- 2 peripherals
- 3 main memory
- 4 hard drive (also known as hard disk)
- 5 hardware
- 6 input
- 7 ports
- 8 output
- 9 central processing unit (CPU)

- a the brain of the computer
- **b** physical parts that make up a computer system
- programs which can be used on a particular computer system
- d the information which is presented to the computer
- e results produced by a computer
- f input devices attached to the CPU
- g section that holds programs and data while they are executed or processed
- h magnetic device used to store information
- sockets into which an external device may be connected

III/ Listening ==

Listen to the following extract and label this diagram with the correct terms.



IV/ Language Work: A/ Relative clauses

Look at the HELP box and then complete the sentences below with suitable relative pronouns. Give alternative options if possible.

HELP box Relative clauses

We can define people or things with a restrictive (defining) clause.

- The teacher who is responsible for the computer centre has just arrived.
 We use the relative pronoun 'who' because it refers to a person. We could also use 'that'.
- The microprocessor is a chip which processes the information provided by the software.
 We use the relative pronoun 'which' because it refers to a thing, not a person. We could also use 'that'.
- The computer we saw at the exhibition runs at 2.5 GHz.
 Relative pronouns can be left out when they are not the subject of the relative clause.

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1 That's the CPUI'd like to buy.				
2 A co-processor is an extra processor chip speed.	does calculations at high			
3 The microprocessor coordinates the activitiestake place in the computer system.	HELP box Classifying			
4 Last night I met someone works for GM as a computer programmer.	Classifying means putting things into groups or classes. We can classify types of computers, parts of a PC, etc. Some typical expressions for classifying are:			
5 A palmtop is a computeris small enough to be held in the palm of	are classified into X types/categories			
e hand.	are classified by			
6 A megahertz is a unit of frequencyis used to measure processor speed.	can be divided into X types/categories Digital computers can be divided into five main types: mainframes, desktop PCs, laptops, tablet PCs and handheld PDAs.			
7 Here's the DVDyou lent me!	• include(s)			
B/ classifying Look at the HELP box and then use suitable classifying expressions to complete these sentences.	 consist(s) of The basic configuration of a mainframe consists of a central system which processes immense amounts of data very quickly. There are X types/classes of 			
1 A computerhardware and software.	X is a type of			
2 Peripheralsthree	A tablet PC is a type of notebook computer.			
types: input, output, and storage devices. 3 A word processing program create and edit text. 4of network archite.	cture:∙. pee~-to-peer, where all			
computers have the same capabilities, and client-server (e.g. the Internet), where servers store and distribute data, and clients access this data.				

V/ Speaking

What are the main components and features of your computer system? Explain them to your classmates.

VI/ Writing

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Explain in a paragraph how to write a paragraph. Specify the form and the structure. Don't forget to mention the steps to follow before writing it.

Form: 1/	
2/	(2)
Steps to follow:	
1/	.10
2/	101
3/	⁷ <i>O</i> .
4/	6
Try to guess the meaning	of these acronyms
IOB	