Computer - Human Interaction *Input Devices*

Part I

Objectives of this module

- to learn about different types of input devices
- to learn to give definitions and describe function
- to review how to use the gerund and the infinite forms

to talk about new ways of interacting with computers



INPUT DEVICES

ANSWER THE FOLLOWING QUESTIONS:

What are some common ways of inputting data into the computer?

2 Which of the above-mentioned devices do you think will potentially become obsolete in the future?

3 How were input devices different in the past than input devices in the present?



LISTENING

LISTEN TO THE RECORDING AND ANSWER THE QUESTIONS BELOW.

1 Which two input devices are mentioned that have already become obsolete?

Name a few input devices that are preferred by certain people to a traditional mouse.

3 Which input devices are mentioned as examples of second-generation input devices?



LISTENING

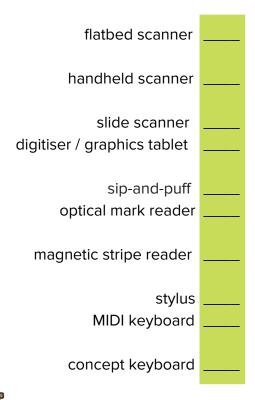
COMPLETE THE SENTENCES BELOW WITH NO MORE THAN THREE WORDS BASED ON WHAT YOU HEAR.

1.	Input devices are generally used to enter alphanumeric text or draw pictures.	around the scre	een
2.	One of the first input devices used was the	simple	
3.	important settings.	are devices widely used on motherboards for chang	ging
4.		tablet ra carpal tunnel syndrome would rather use than a mouse.	
5.	and fingerprint reade	rs are being implemented to improve security.	
6.	In the future, people will see more of this general remedy for weak or leaked passwo		as a



VOCABULARY

MATCH THE FOLLOWING TERMS TO THEIR DEFINITION.



- **a.** a device that reads information encoded in the magnetic strip located on the back of a plastic badge
- **b.** a piano-style user interface keyboard device used for sending audio signals to a computer
- **c.** a type of keyboard where each button relates to a particular item or function
- **d.** a small pen-shaped instrument that is used to input commands to a computer screen
- **e.** small scanner that is moved by hand over the material being captured;
- **f.** a scanner that provides a flat, glass surface to hold a sheet of paper, book or object for scanning;
- **g.** a device that allows one to hand-draw images and graphics, similar to the way one draws images with a pencil and paper;
- **h.** an assistive device used to send signals to a computer by inhaling / exhaling on a tube;
- a type of scanner that is specialized for scanning 35mm slides and film negatives;
- **j.** a device that reads marks made by pencil on a printed form into the computer;



VOCABULARY

READ THE DEFINITION OF DIFFERENT TYPES OF DEVICES AND THEN CHOOSE THE DEVICE THAT MATCHES THE DESCRIPTION.

								_		
	A	trackball	В	joystick		С	lightpen		D	scanner
1.		is an inp ons	-			•				_
	Someti	imes two	s are co	nnected to a c	onnected	computer s	o two people	can play at	the same	time.
2.	her ha	works in nd to operate it. If you with a mouse)	ou use a	,)	ou don't ı	need any e	xtra space or	n your desk	to move i	t around (like
3.		can be that can rea background.		•		•		•		
4.	_	a, yo like a photocopier – with optical	a light is sh		terial and	the	detect	ts the reflect	ted light. Y	'ou can use a

GIVING DEFINITIONS & TALKING ABOUT FUNCTION

LOOK AT THE DEFINITIONS FROM THE PREVIOUS EXERCISE AGAIN.

WHAT TYPE OF INFORMATION DO THEY CONTAIN AND HOW IS THIS INFORMATION PRESENTED?

- A JOYSTICK is an input device you can connect to a computer system. The JOYSTICK is able to move in eight directions.
 JOYSTICKs are mostly used in computer games to control the way a picture on the screen moves. Sometimes two
 JOYSTICKs are connected to a connected computer so two people can play at the same time.
- 2. A TRACKBALL works in exactly the same way as a mouse, except the ball is on top. The user rolls the ball around with her hand to operate it. If you use a TRACKBALL, you don't need any extra space on your desk to move it around (like you do with a mouse). TRACKBALLs are often used on small portable computers and on some video game machines.
- 3. A LIGHTPEN can be used to draw pictures on to a computer screen or to read the pattern on a barcode. A LIGHTPEN that can read barcodes detects the difference between the light reflected from a black barcode line and its lighter background.
- 4. Using a SCANNER, you can input printed drawings, photographs, or text directly into a computer. A SCANNER works like a photocopier a light is shone on the material and the SCANNER detects the reflected light. You can use a SCANNER with optical character recognition (OCR) software to input the scanned text into a word processing package.



GIVING DEFINITIONS & TALKING ABOUT FUNCTION

BELOW YOU CAN FIND OUT MORE ABOUT HOW YOU CAN GIVE DEFINITIONS IN ENGLISH.

A definition usually includes three parts: the term to be defined, the group it belongs to, and the characteristics that distinguish it from other members of the group.

TERM	GROUP	CHARACTERISTICS / FUNCTION
A core	is a ferrite ring	which is capable of being either magnetised or demagnetised.
Silicon	Is a non-metallic element	with semiconductor characteristics

ANALYZE THE FOLLOWING DEFINITIONS AND IDENTIFY THE DIFFERENT PARTS BY:

- a circling the term
- **b** underlining the group once
- c underlining the characteristics twice

e.g. (A computer) is a machine with an intricate network of electronic circuits that separate switches or magnetise metallic cores.



GIVING DEFINITIONS & TALKING ABOUT FUNCTION

ANALYZE THE FOLLOWING DEFINITIONS AND IDENTIFY THE TERM, THE GROUP IT BELONGS TO AND THE CHARACTERISTICS BY MARKING THEM WITH DIFFERENT COLOURS.

- 1. Input is information presented to the computer.
- 2. A 'system' is a mixture of integrated parts working together to form a useful whole.
- 3. Large computer systems, or mainframes, as they are referred to in the field of computer science, are those computer systems found in computer installations processing immense amounts of data
- 4. A modem is a device which serves a dual purpose, because it acts as a modulator (digital to analog) and a demodulator (analog to digital).
- 5. A compiler is a systems program which may be written in any language, but the compiler's operating system is a true systems program which controls the central processing unit (CPU), the input, the output and the secondary memory devices.



RELATIVE CLAUSES & PRONOUNS

KNOWING HOW TO USE RELATIVE PRONOUNS CORRECTLY IS KEY WHEN GIVING DEFINITIONS.

SUBJECT	ОВЈЕСТ	POSSESSIVE
who	who/whom	whose
which	which	whose
that	that	-

TWO KINDS OF RELATIVE CLAUSES

Relative clauses are subordinate clauses which refer to the noun of the main clause, identifying it or adding extra information. There are two types of relative clause: defining clauses (identifying the noun or classifying it as part of a group) and non-defining clauses (adding information about the noun).

DEFINING RELATIVE CLAUSE

A defining relative clause specifies which person or thing we mean. It cannot be separated from the person or thing it describes. e.g. By 4.30, there was only one computer which hadn't been sold.

NON-DEFINING RELATIVE CLAUSE

A non-defining relative clause contains extra information. In writing, it is separated by commas, and in speech, if used at all, is usually indicated by intonation.

e.g. By 4.30, which was almost closing time, nearly all computers had been sold.



HERE ARE FIVE SIMPLE RULES ABOUT RELATIVE STRUCTURES. FOUR ARE CORRECT. <u>CIRCLE THE NUMBER OF THE INCORRECT ONE.</u>

- 1. We can use who(m) for people and which for things.
- 2. We can often use that instead of who(m) and which.
 - 3. We can often drop that.
- 4. After everything, anything or nothing, we can use what, not that.
- 5. Who and which replace he, she, it, etc. we don't use both kinds of pronouns together.



CHECK YOUR KNOWLEDGE. FIVE OF THE SENTENCES IN 1-10 ARE WRONG. CORRECT THE MISTAKES OR WRITE 'CORRECT'

I don't enjoy films that I can't understand them.	that I can't understand
What's the name of the man who just came in?	correct
1 I like people which smile a lot.	
2 This is a book will interest children of all ages.	
3 Is there anything I can do for you?	
4 Motor racing is a sport who doesn't excite me at all.	
5 We've lost the key that opens the cellar.	
6 I forget everything what I read.	
7 They made me an offer which I couldn't refuse.	
They made me an offer that I couldn't refuse.	
9 They made me an offer I couldn't refuse.	
10 They made me an offer that I couldn't refuse it.	



RELATIVE CLAUSES & PRONOUNS

FILL IN THE BLANKS WITH THE CORRECT RELATIVE PRONOUN OR ADVERB. INDICATE WHERE THE RELATIVE PRONOUNS CAN BE OMITTED.

1.	Our new neighbours, who live in the flatexhibition.	is just below ours, own the galle	ry is showing the Picasso
2.	Two weeks ago he went to Chicago he finishes training.	he met the magazine editor	for he will be working
3.	Kevin Sedgewick stars in studying in England.	this film, comes from the small town	I lived I was
4.	It was at the dinner on Saturday kindergarten teacher.	Gary told us about the woman	claimed that she was his
5 .	I believe that vitamin C relieves colds quickly	is a point	many doctors agree on.
6.	Angela is a parent I met a successful career to campaign for their rights,	-	is so interested in children, gave up a
7 .	That young man you were surgeon.	speaking to at the conference was the one	mother is the country's best
8.	My Babe Ruth baseball card	·	enty years ago, was bought by a collector
9.	Just as we were getting out of our car, Miss W we had seen the couple to		ay, came with a police officer and asked us if
10.	Yesterday was one of those daysconsidering all the clients had to meet.	I couldn't find any free parking	spots was frustrating

THE TABLE BELOW CONTAINS INFORMATION ABOUT THE MAIN PARTS OF A STANDARD KEYBOARD. USING THIS INFORMATION, WRITE A BRIEF DESCRIPTION OF A KEYBOARD. THE FIRST SENTENCE HAS BEEN DONE FOR YOU.

	SECTION	LOCATION	MAIN KEYS	MAIN FUNCTION
1	Typing keys (main keyboard)	centre	Each letter Digits 0-9	Input all kinds of data
2	Function keys	top	F1-F12	Not fixed-can be programmed
3	Control keys	right	Cursor keys Insert delete	Control the cursor
4	Numeric keypad	far right	Digits 0-9 Symbols for mathematical operations	Input numeric data

1. Typing keys are the main keys located at the centre of a keyboard
which allow a user to input all kinds of data. It has keys for each
letter and digits 0-9, as well as keys for punctuation and other
common symbols.

3.			



THAT'S ALL FOR TODAY! THANK YOU FOR YOUR ATTENTION & SEE YOU ALL NEXT WEEK!

As always, feel free to rate today's lesson and leave a message if you prefer:



Or, you can write a short feedback here, if you prefer:

