



Interaction of Hardware Components

How information flows - from the user's point of view

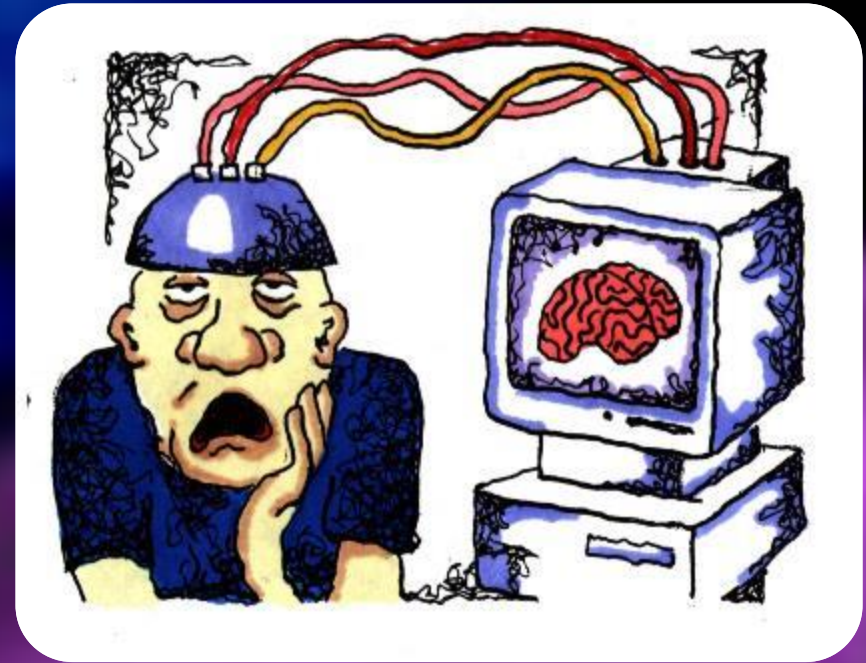
- the user will open a program
- the user will input data
- the user will change the data
- the data will be saved onto the hard disk and also onto a floppy disk
- the data will then be printed



How the information flows - from the computer's point of view -

- a copy of the software program is transferred from **storage** on the hard disk into **RAM** and **program** is shown on the monitor

(what is currently required for processing has to be in the temporary storage area - random access memory)



- data is input using the keyboard

(data is stored in RAM ready for processing,
and displayed on the Monitor)



- the user then decides to edit or format the data using the **keyboard** and/or the **mouse**



(The **CPU** does the work by following the program instructions given by the user eg insert a picture or use a fancy print style or font)

CPU sends results of processing to **monitor** eg displaying the edited notice

RAM temporarily holds the editing changes you have made)



- copy of the file is saved onto the **hard disk**, or **solid state drive**, or **portable drive**

(copied from RAM - temporary storage area to permanent storage area)

a copy could also be saved onto a **USB flash drive** - or memory card - to provide back up copies or to allow the data to be taken to another computer to be used)

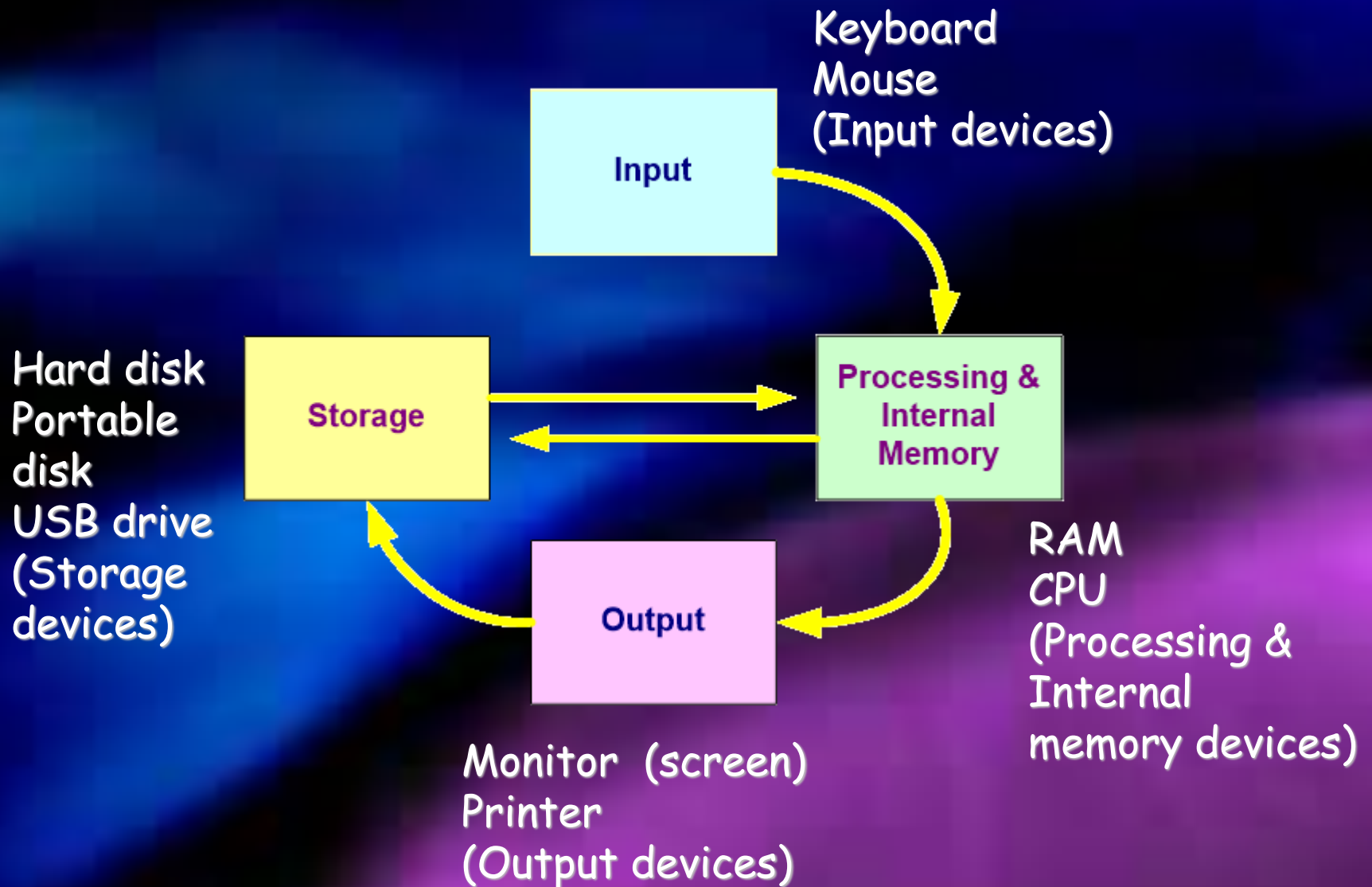


- the **CPU** follows the program instructions and prints the data using the **printer**

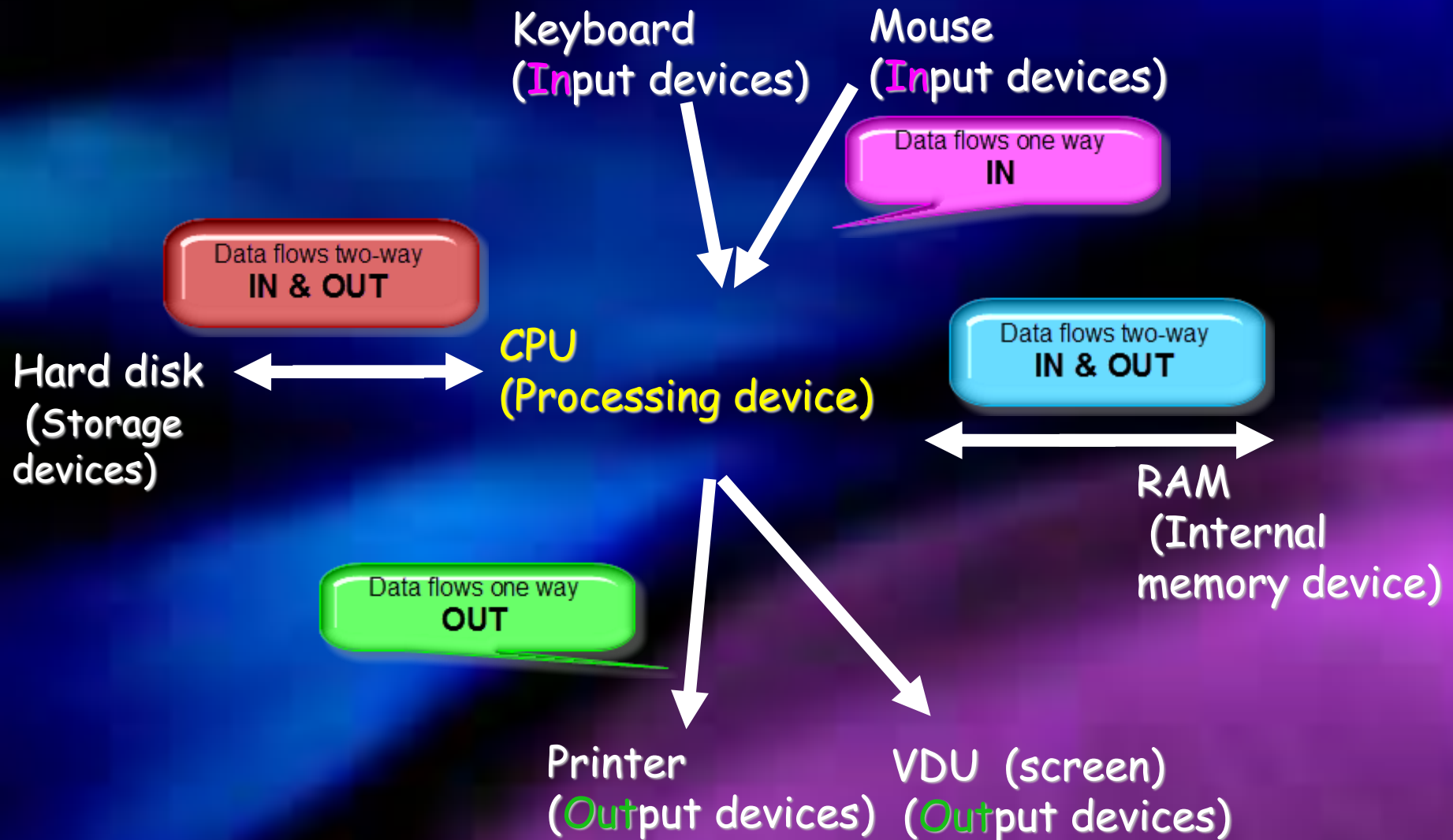


(copy of data is sent from RAM to printer memory then printer prints the hard copy of the information)

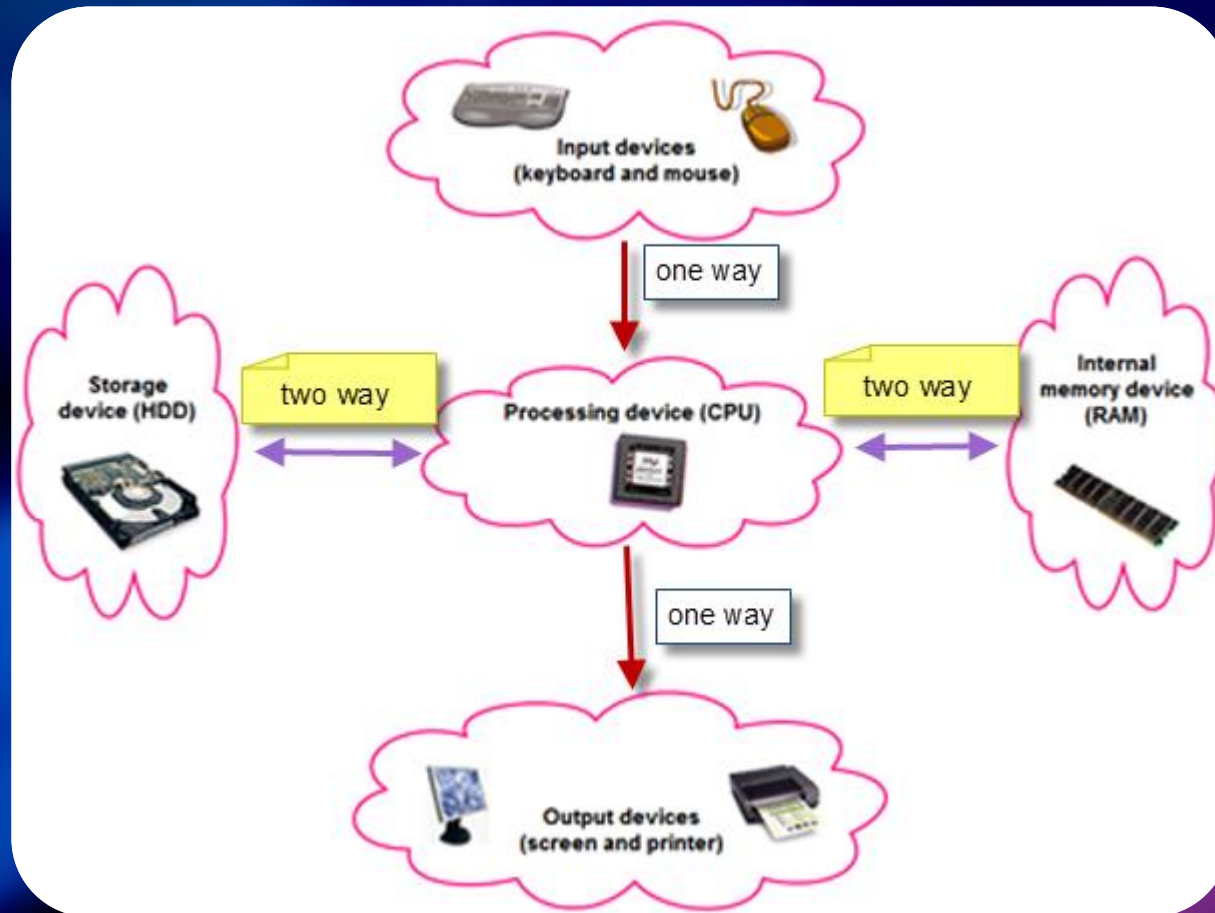
The flow of data between the components & the CPU allows the PC to complete the processing cycle



The flow of data between the components and the CPU allows the PC to complete the processing cycle



The flow of data between the components allows the PC to complete the processing cycle:



End of presentation

- Next steps ...

Go back to the workbook

You will see that there are Study Notes on the Interaction of components

End of Section 1

Common computing devices, hardware & terminology to assist you to process data