6 Personal Computer 0.5

-) Personal computer os provides a good interface "to a single User"

-> These are ois which are mainly used for

1 Word processing

3 internet access the

- This type of os are used for PERSONA Eg! of personal computeros, laptor, Tablets Computer System.

Eq. Of PCOS Windows-XP, Window-T, window-7, Windows 10,11, Linux; Unix Os, Mac-Os.

personal computer os are used for personal Such as " use

1) Reading Articles from Internet.

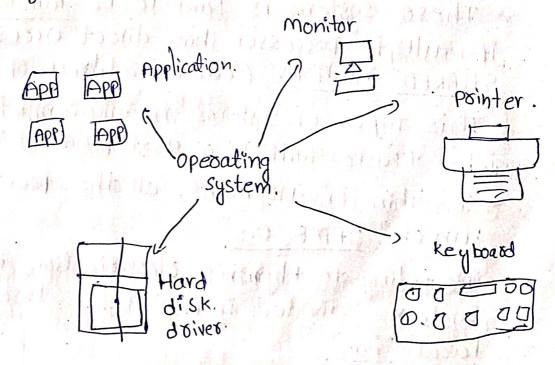
2) Creating Websits. / Programing.
3) Chatting with the firfriends - Jusing

4) Developing projects - using Ms-word, PPT.

5) Palying Video.

- The first per personal computer os in as Introduced in year 1981 is it is IBM PC!

figi- shows - pc - os



Advantages of pcost

- 1 education.
- 29t a is also used for entertainment.
- 394 is also used for Communication-Nelworks.
- 9 It is also used for E-Commerce.

Disadvantages of Pcost

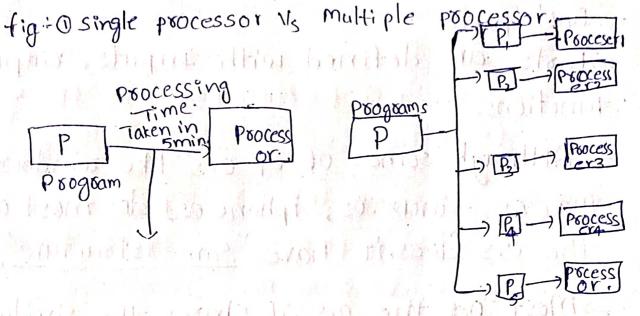
- 1 Internet addiction.
- 2) physical side effetts.

@Pavallel_processing_systems:

This x systems mainly designed to speed up execution of <u>Multiple programs</u>, where programs are partitioned into <u>smaller part</u>

- These systems are also known as multiprous ssor systems (or) Tightly Coupled Systems.
- * These system is said to be "Parallel-System if multiple processor has direct access to "SHARED MEMORY" (common address space)
- iobs (Tasko) With in a shoot reviod of time.
- * In thin Envinorment, all the process should run on " SAME O.S."
- -According to Flymin's classification Computer Systems 'divided into (4) types based on . "Parallelism"

11) SISD - Single & Instruction single data stream 111) SIMD -> (single Instruction Multiple data stream) (iii) MISD - [Multiple Instruction Single datastream] (iv) MIMD - [Multiple Instruction Multiple data stream]



Advantages !

Off saves the time, it also execute all the. applications simultaneously

- (2) Shaving of resources will be done Pavallelypri simultaneously.
- (3) It also handles Large complex programs"

Visadvantages of PPS = 10

1) The involves more High Cost (1)

@ The maintaince Will be high.

(3) It requires Huge power compution. Comsumption.

TREAM MININGS LOS IN LAS

- -> System Components:
 - Tous is large are complex System which can be created by "partitioning". Them into "Smaller Parts"
 - ~ Frach parts
 - -Parts are defined with Inputs, outputs functions.
 - Although some of or o.s like windows, Macos, Linux.os, iphone as J do most of the o.s doesn't have "Same structure".
 - -) Most of the ois it shares the similar. System Components. [such memory mangmer Process mangment, tile marginent I/o]
 - * Component in o.s plays a key Role for. making differents parts of system working together. +ogather.
 - The following are the system . Como (8) Components O.s.
 - 1) process mangement.
 - @ File Management
 - 3 Netwook Management.
 - (9) Memory Management
 - 3 Secondary storage Management
 - @ Input looped device management

(7) Security Management. 8 A Command Interpreter System, [system Interface] 1) Process Management: This function mainly handle the. 2 execution. & teromantion of the process A case Throughout Evel all (12 fee) @ File Management! This function mainly handle (on provides the Creation Ideletion of files. in a correspondi--ng directions and also responsible for mani-- Pulating files mirror carty a pulp 1999 3 Network Management's Network management is a function which enables the Communication bliw differen -nt System con devices that type of the management is called network. (4) Memory Management This function mainly allocates! deallocates the main memory to the processes is called memory management. (5) Secondary Storage Management: This Function mainly provides the Concept of storage allocation it also a. allocates free-space management and also

responable for disk schedulaing.

This function is mainly management!

The Input & output devices management!

analong with the desidoivers.

(7) Security Management:

from Unauthorized Access & Attacks.

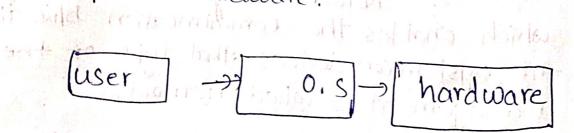
8 Command Interpreter mansystem:

It is a poimary Interface bluthe

User & rest of system.

operating system Services:

-) O. s provides Interaction bloothet users computer hardware.



- -> Here the user doesn't directly Interacts
 with hardware.
- hardware; by the requesting the os.
- manager" which mainly manages all the hardware Parts. (processer, Memory, Ilo)

-) An ois mainly operates of 2 modes.

Duser Mode. -> eg: Compilers, editors -> duns on user mode.

(2) kernel mode -> eg: os code runs on kernel mode.