CH-8: Operating System (OS) Dr-10101-24 1) What is an operating septem?

2) Describe how or can be used as a user-computer interface

Draces the computer hardware & softween structure.

3) what are the different services provided by 05?

u) Describe the coord of OS as a resource manager.

5) What are the diff" types of lower?

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nos is a program that control the execution of application program 19t ach as can inherface blow the application and the computer hardware.

191 has 2 main objectives.

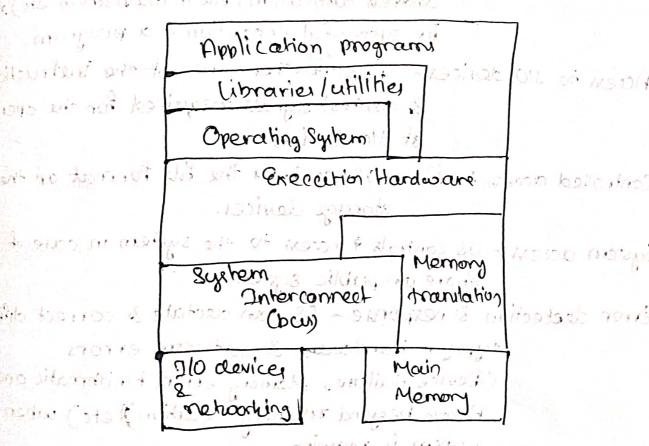
i) Convintence - Os maker a computer more convinient to use.

di) afficiency; It allows the computer resources to be used in an efficient codey

pos can be used in a diff" ways.

in os as a wer-computer interface?

ci) os as a nesource manager.



. The application program can be written in any programming

language

Utilities/Ribraries helps us in program creation, manages the thes & controls the I/o devices.

The most important system program is \$505.

The Os hide the detail of hardware from the programmer & provides him with a convinient to the the processor

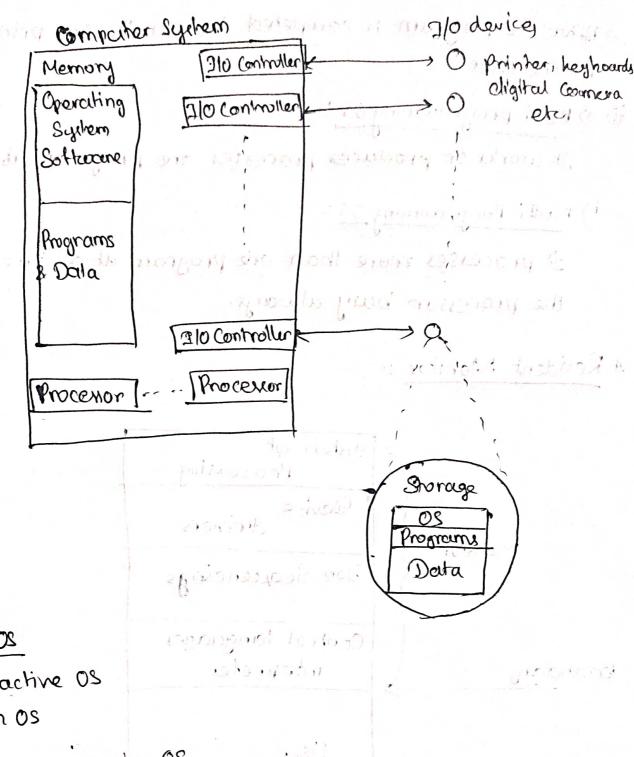
Interface > Application programming interface torpos cr Application binary interface Instruction set architecture

- 3) The Os provider the following services.
 - (i) Program creation 08 provides diff" types of facilities & Services like editors, debuggers, interpreters etc. to help the programmer in creating new programms.
 - (ii) Program Execution OS supports all the steps & Instruction relation are loaded into main memory, 210 devices address allocation, file in itialization etc), redu for succenful execution of a program.
 - (iii) Access to 310 devices 03 states ther care of the instructions & control signale required for the operation of 210 devices
 - Ciry Controlled acreen to files 08 controls the file format on the storage devices.
 - Cu System accent: Os controls à accent to the system in cour of share on public systems.
 - cui) Error destection & response Os can dectate & correct diff? types of hardcoare & softcoare errors Oevice Scilcine, Memory error, Prithmatic overflow Acren begond memory location & etc) when the system is running

(vi) Accounting - Os collects the statistics for the diff" nesounces connected of appropriate containing or in the processor. SITED OF EASTERNING TO

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is no many soft any framerical to such the set when the set



1) Clyper of OS

1) a) Interactive OS

B) Batch OS

11) as Uni- programming OS

b) Multi-programming 05

i) a) Interactive OS:-

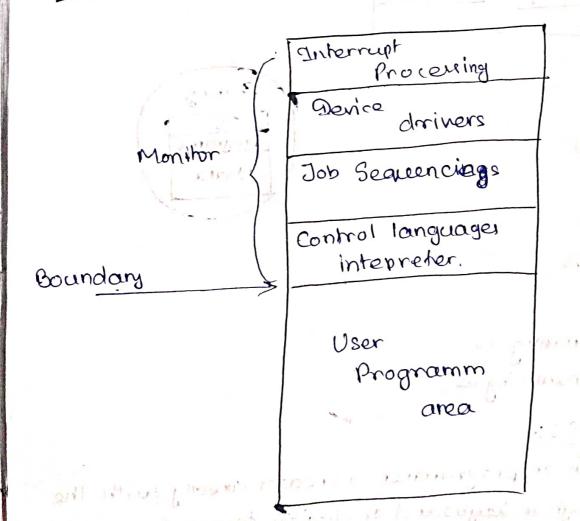
The over or programmer increases directly with the computer through a keyboard or display terminal.

b) Batch OS:

-> The cuer's program is batched together with the program from other wers and submitted by a computer operator

- -> Often the program is completed the results, are printed out for the cuer.
- It works or produces processes are program at a time
 - The processes more than one program at a time and heeps the processor bury always.

* Resident Monther:



i) from the point of view of over in Batched as systems, the monitor controls the sequence of events.

11) So, the manabers monitor should always be present in the main memory and available for execution. This portion is referred to as resident monitor.