3) The Idle time for botch system is very less.

With is easy to manage large network repeatedly in batch Systems.

·Disadvantages ?-

MOS MOSE MOSE

1) The computer Operators should be well known with both system.

2) Batch Systems are hord to debug

3) It is sometimes costly.

job fails.

2) MuHi programming Operating System:

ond any one of them (an be kept in execution.

This is basically used for better execution of Resources

-> to Execute multiple Jobs by Single Processor

-No. of Jobs (processes) in memory, as execute ofte of Job - when current Job weits for some reason the as executes another job.

- CPU will never be idle to increase throughput, response time

Advantages:

- It helps to Reducing Response time.

Disadvantage :-

There is not any facility for User Interaction of System resources with System.

-	Job1	
	Job2 -	Memory
-	Job3	Partitions
1	Operating	
1	System	4

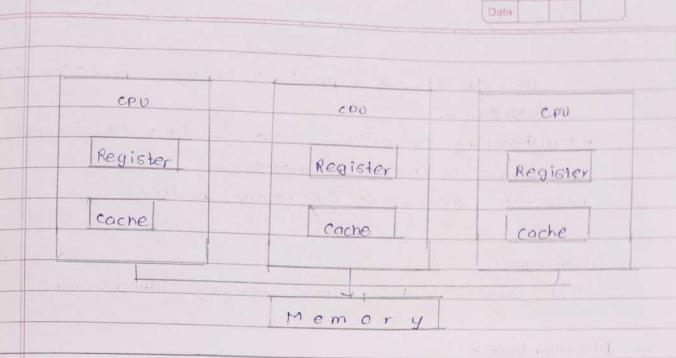
Multi-Processing Os:

3)

- 15 type of 0s in which more than one CPU is used for execution of Resources. It betters the throughput of System.

where processors Share memory and Clock.

Communication usually takes place through Shared memory



Advantages :-

- Increase the throughput Of System
- As it has several processors, so if once processor fails we can processed with another processor.
- -Insymmetric multiprocessing Each processor runs Identical Copy of 05.
- -> Many processors ran run at once without performance pecrease.

Disadvantage -

ond Somehow difficult to understand.

a) Nulti - tasking 05:

- Simply Multiprogramming OS with having Round Robin Scheduling Algorithm. It can Run Multiple Programs Simultaneasly
 - Task is instace of process. I process is a program under execution. CPU handling multiple task at a time known as multitasking

~	15	the	ability	+0	Support	2	01	more	processes	executo
	51	mutar	reously.		235				93	

- Multitasking as allows code & data of Several - processors to reside in memory.

- Resources are made Continuosly working

Advantage :-

- 1+ comes with proper memory Management.

Disadvantage :-

The Systems get heated in case of heavy pragrams multiple times

process Process Process

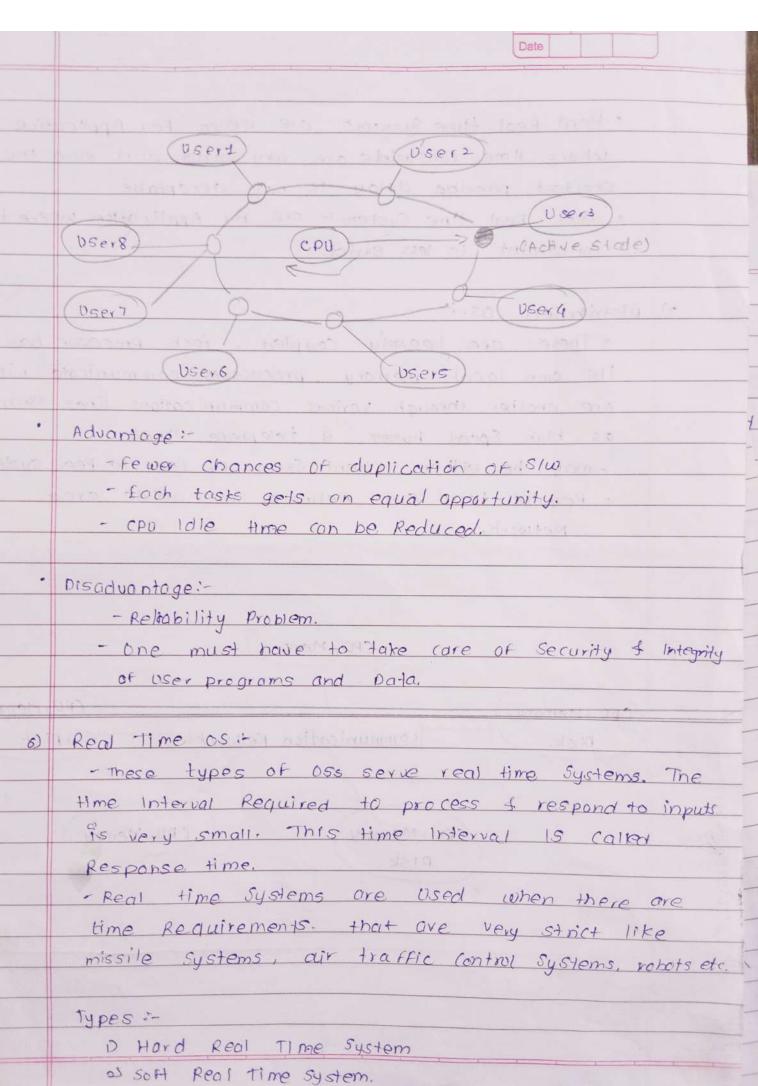
Operating System

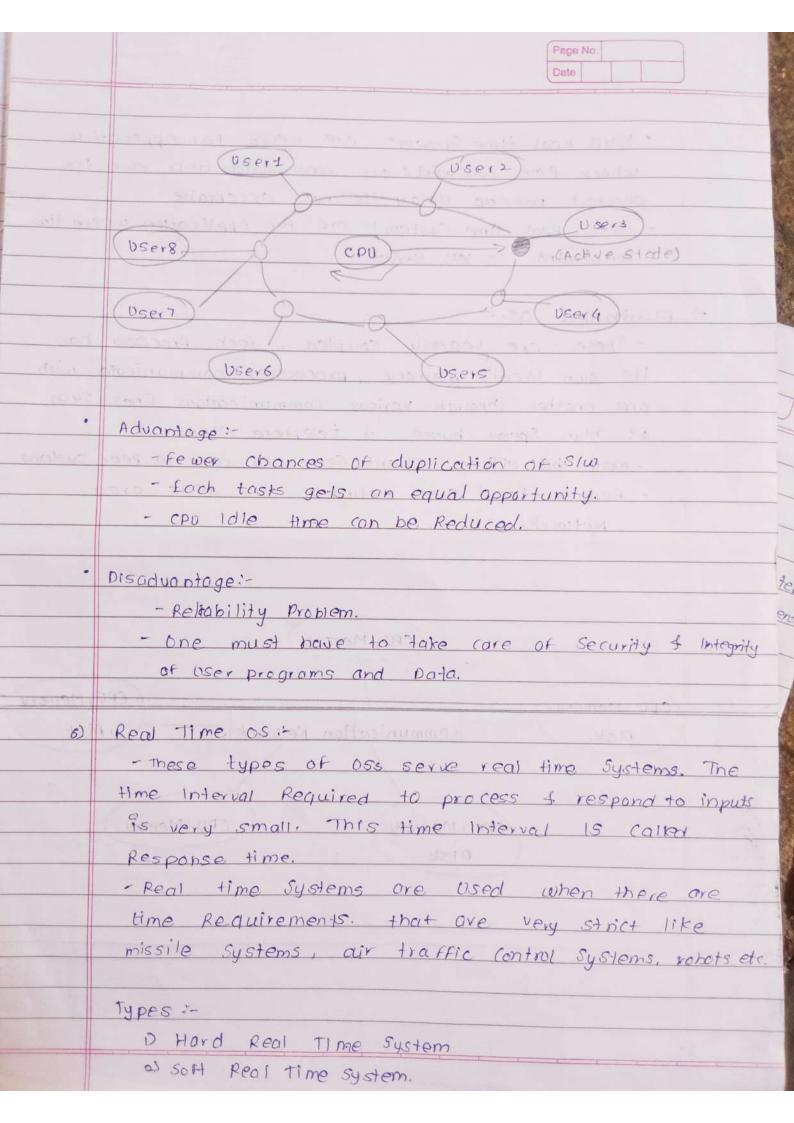
CPU)

Time Sharing OS:

that all the tasks work smoothly. Each user gets time of cpu as they use a single system. These system are also known as multitasking systems. The task can be from a single user or different users also. The time that each task gets to execute is called quantum. After this time interval is

bridge execution, cour begalling outling deck of a time





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- · Hard Real time System are meant for Applications where time constraints are very strict and even the shortest possible delay is not acceptable
- · SOFT Real time System :- are for Application where time constraint is less strict.

7) Distributed Os .:-

These are loosely coupled, fach processor has its own local memory, processors communicate with one another through various communications lines, such as high Speed buses, & telephone lines.

- may be either Client-Serve or Peer to Peer systems - Require Local area network ar wide area

Network.

