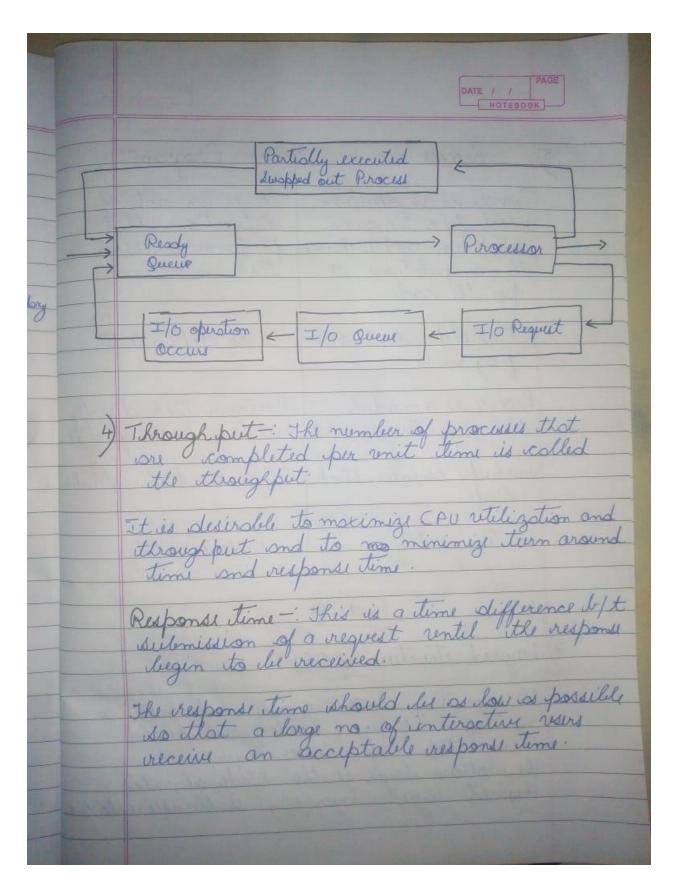
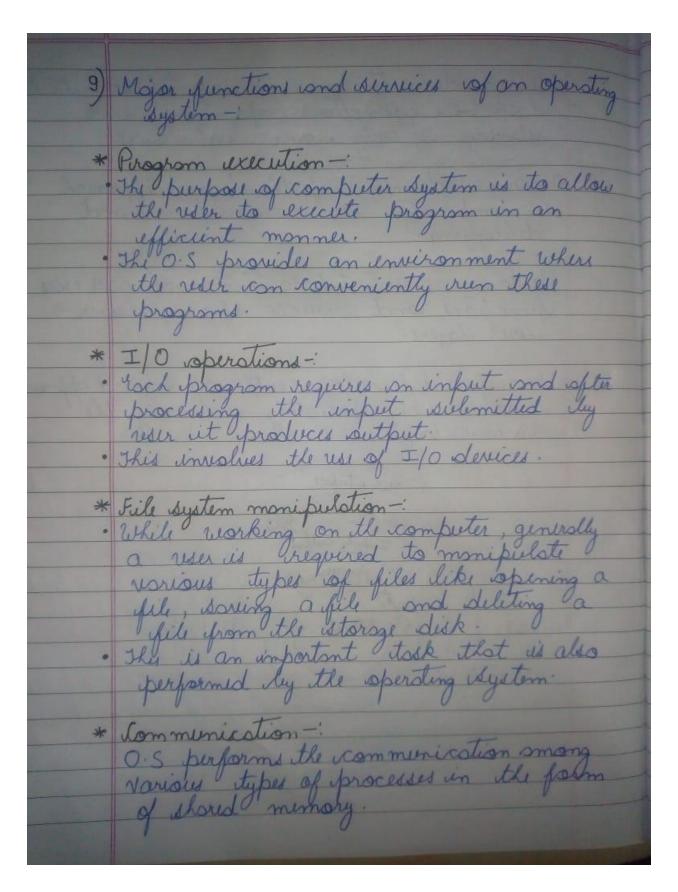
	K.112
	Kushagra Jaiswol
	IT-1 OS (KCS 401) DATE / / NOTEBOOK
	2000910139004
	60 00 110133804
	Part - A
	0 + 0 + +
	Batch operating System:
	Advantages -:
311	Batch system con let shored by multiple users. There is very less idle time for ledel system. It unable us to mange the ufficiently large lood of work.
	There is very less idle time for letal system
	It unable us to manage the efficiently large
	lood of work
	Dissolventages -:
	It is very difficult to delug the lostch system. It is costly sometimes If any job fails, then it is difficult to predict the time.
	skystem.
	It is costly sometimes
	If any job fails, then it is difficult to
	predict the time.
2)	Time shoring system: Time shoring system,
	to I to what proceeding is
	method of operation in which different program interact nearly simultaneously with the CPU of a large scale digital computer.
	program interest nearly simultaneously
	will the CPU of a lorge scale digital
	Computer.
The same of the same of	



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3	There were 3 types of whichedulers variable:
	Long term Scheduler -: Long term scheduler is slss known as
LAW	It chooses the processes from the pool (Sconday memory) and keeps them resdy green maintained in the primary memory.
April 1	short term scheduler:
	Short term scheduler is was known as
	It selects one of the jobs from the credy queue and dispatch to the CPU for the execution
	Medium Term Scheduler-
	Medium term Scheduler tokes core of the suppled out processes.
	If the running istate processes needs some IO time for the completion there is a need to change its state from running to waiting.
	To tubling.

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5)	Perocess is an operation which takes the given instruction and iperforms the manipulations as per the code.	Perogram It is an act of instruction that perform a disignate task.	
	It is dependent on a program. Perocess is a module that executes concurrently includes counter, stock, heap	It is a set of instruction	
7)	Part-B 7) Layled structure of OS-: The operating system is idivided into a no of layers (levels) lock divided on top sof lower layers. The bottom layer is the hardware, the highest layer (layer (N)) is the resu interfer		
	highest layer (layer	(W)) is the resu interfect	

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With modularity byers are selected such that loch reses functions (operations) and services of only lower-level layers.
The main solventage of the boyund spproach is simplicity of construction and delenging.
The layer ore selected so that each case reses functions and services of only lower-
The major difficulty with the layered opproach involves sproperistely definning the various layers.
and interface
File Monogement dystem Input Output yronogement so Kernel



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*	Gerror detection: The main function of O.S is to detect the server like lead sectors on hard disk, memory overflow and wars related I/O devices.
	After detecting the errors, O.S. tokes an oppropriate action for consistent
*	Resource solocation
*	Perotection and esecurity
	John .
- 8)	Resty queue:
	In starting, all the processes get stored
	in the gol greve.
	It is maintained in the secondary memory.
	The long term ischeduler (Job schiduler)
Olyppi.	picks some of the your on pur were
-	In storting, all the processes get stored in the yob queue. It is maintained in the secondary memory. The long term scheduler (Job scheduler) picks some of the yobs and put them in primary memory.
	Resdy queue -:
	Ready grew is maintained in primary queue. The short term scheduler picks the yest from the ready greve and dispatch to the CPU for the execution.

	Derice quui- When the process needs in order to complete OS ichniges the state i	some I/O spersting its execution, of the process from
	Part - C	The reserved of the second
11)	a) Monolithic Kernel	Microkernel
	Kernel size is Asrge	Kernel size is small-
A 20 50	O.S. is complex to design	design, implement and install.
	All the operating system services are included in the kernel.	IPC and low level device management.
	Request are served.	Slower crequest is

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Multiprogramming	Multi reser system
It keeps several program in main memory st the same time and	It shows multiple viser to occess the
executes them concurrently retilizing single CPU	one O.S in it.
It retilizes single CPU.	It is resed on large mainframe computer.
less Expensive	More expensive
Less efficient time	More efficient time.