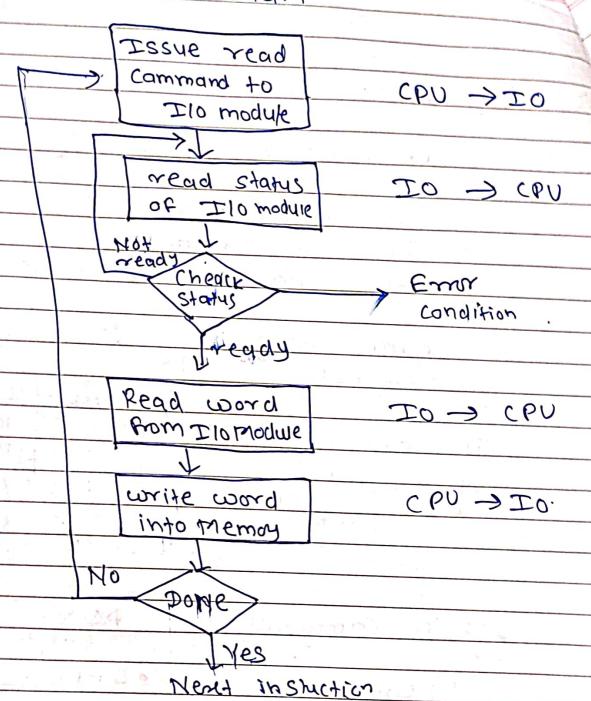
	UNIT-Y Os	(Nate Page
	· Ilo & File T	lanagement.
0-1-	Exeplain In Breif: I	To Performing Techinques
\longrightarrow	Three ways by w	shich Ilo is Performed
	1 Programmed I	
	2 Interrupt Driv	
	3 TO USING DM	IA. CDIrect Memory Acress).
	1, 4 2, 11, 1 V	Tarne
	(1) Programmed IO	sca mand.
	11 111	T Carmin
C.	In rac.	ASK IIO
	7 (20)	1 Kear Module
	CPU	1 resource 1113 P
M	Day	da I franska / Ti read
	TITTE	
	ी	ve resonce write
		OPT
	I lo Cammands	Y. CA
	=>	and the second second
	1 Control	· Simple
	@ Test	· Read write
	3 Read	Dis adv.
	@ write	· Time consuming
20	- 1 3 same may	CPU is IDeal.
_	modes of Addres	
	memory mapped	Isolated IO
	TIO const po	Links track of the
	"Single address	" saparate address
	Space for memory	Space for Memoy 6
	& TO "	IO"

Date Page

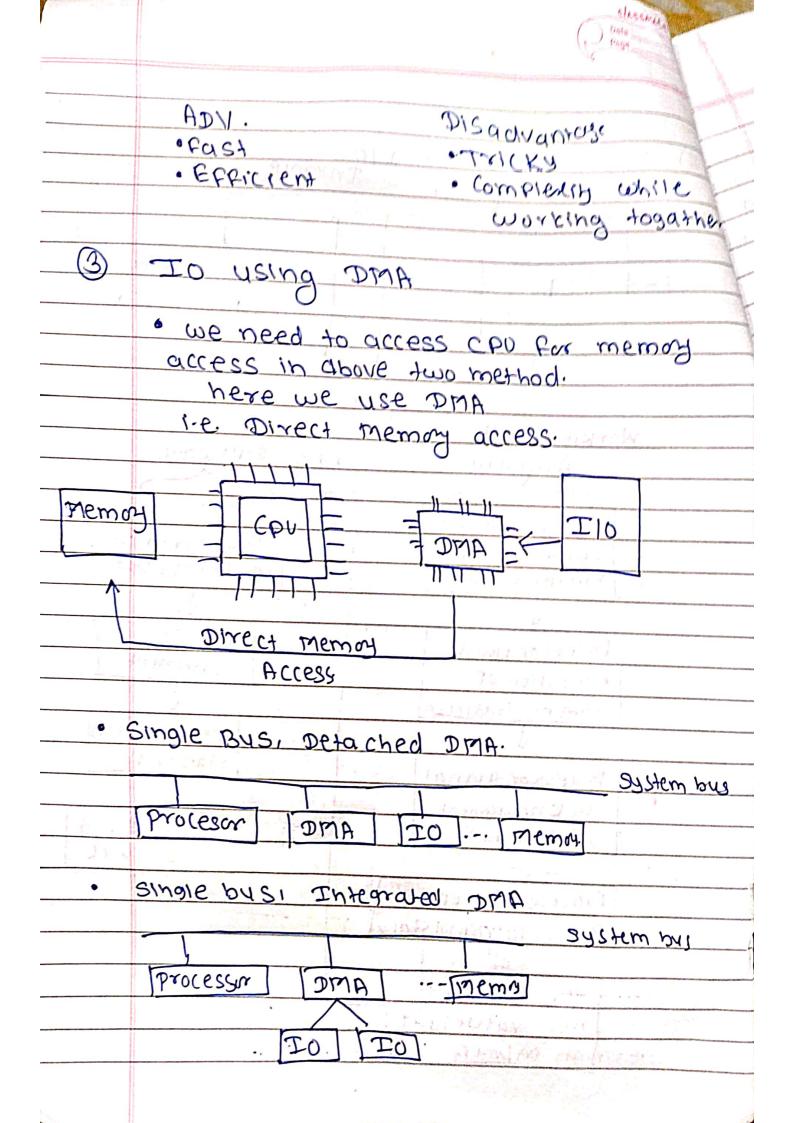
Flow Chart



· Limitations

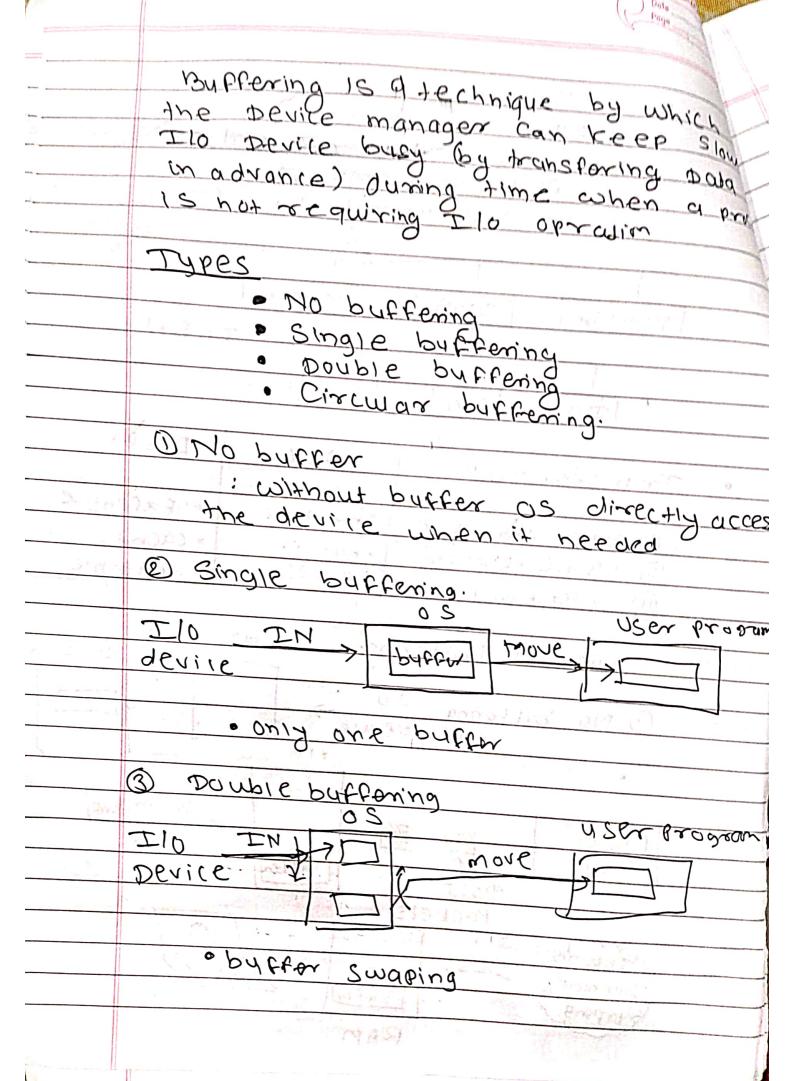
- · Low end microprocessors.
- · Single Input & Single output
- · each insorction select one IIO i.e. trasper one chair at a time.
- · Eseample

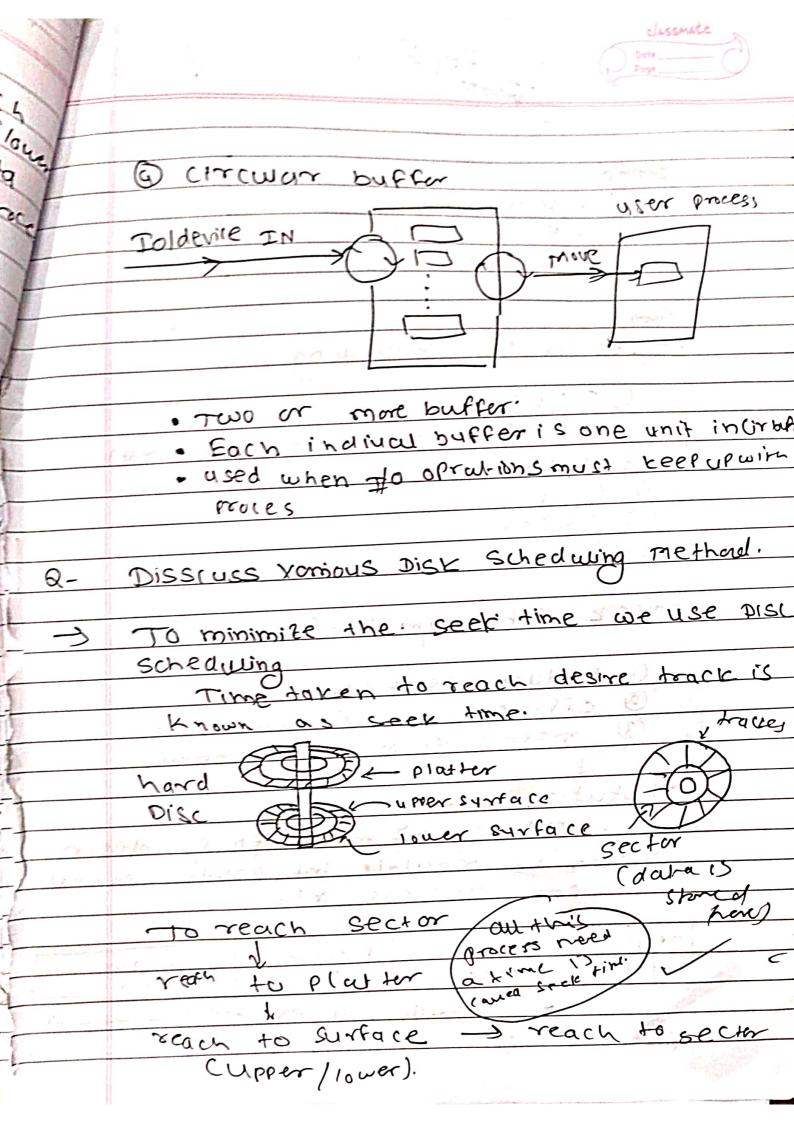
· Mi ono Process con boiled vide o

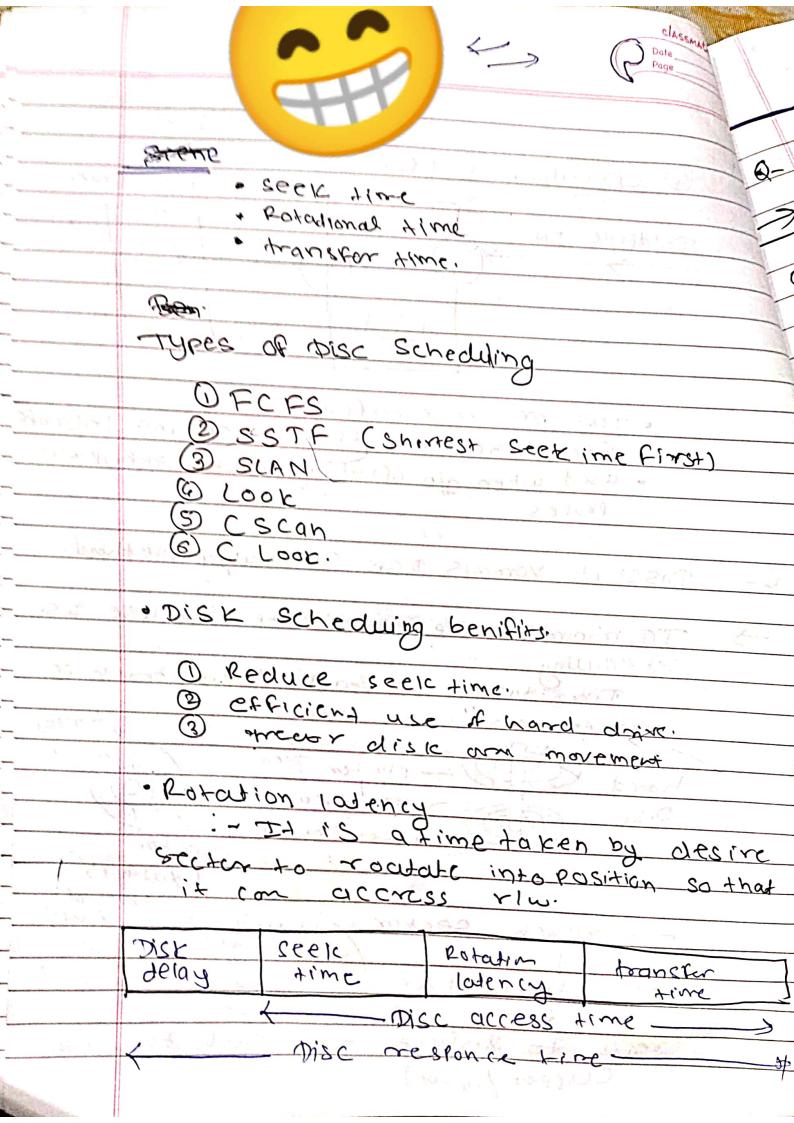


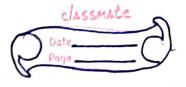


	Page		
	· Ilo Busting Di amingilia		
50 B)	same as above		
04/1	but system bus commercial to		
43 1	May Man		
	& IO has saprate bys (IOBY)		
	SYSHM		
	bus bus		
	process DMA Menny		
	roma Mind Cloud & TOBY		
	- Birmilland Silvera :		
	IO TO ITO IN ITO		
	and the second s		
0	Transfer mode. ADX DISAI		
7 (5	Justine of adding the Market in		
	DiBrust transfer Cast - Expensive		
	(ii) cyclic teteting. lease of cache		
	(iii) Interleaved model a cress conternie		
19	20		
2-2-	Explain IO Buffering.		
-	User sysm		
\rightarrow	O No byffering Io		
	device,		
-	RAM		
	- PRIMAPAUL SIENCET IS-		
	faster Slowerdenie		
	Device Buffer		
	, your		
	Packets.		
	(Internet)		
	Surring BURFER BURFER		
	RAM		
	1, M 1, 1		









File shaming (Short Note). DISC & scheduling. · FCFS · SCAN · LOOK · CLOOK · CSCAN · SSTF A pisc drive has 200 cylinders humbered 0 from 0-199. The drive is currently serving the request at cylynder 63 . The aveue of pending requests in FIFO order 27, 129, 110, 186, 147, 41.110169,120. OFCES @ C-Scan (3) C-LOOK (SSTF 199 JCFS 0 1027416364 110 120 129 147 186 3,4102+ 19+75+39+106+31+59+56 53.66 619 =68,72

27/ (129), (10), (186) (97), (1), (10) (10), (186), (17), (10), (186), (17), (10), (186), (17), (10), (186), (17), (10), (186), (17), (10), (186), (17), (10), (186), (17), (10), (186), (17), (186), (17), (186), (17), (186), (17), (186), (17), (186), (17), (186), (17), (186), (17), (186), (17), (186), (17), (186), (17), (186), (17), (186

O SSTE

 $63 \rightarrow 64 \rightarrow 41 \rightarrow 27 \rightarrow 10 \rightarrow 110 \rightarrow 1207$ $186 \leftarrow (47 \leftarrow 129$

= 1+23+14+17+100+10+9+18+39 = 231 = 25.66

3 SCAN

1+46+10+9+18+39+654 +195++3+

reffer textbook for the numericals



File Sharing:

File sharing is important when the system is Multiuser. Where the File sharing Is in number of user. In muliuser while sharing 2 issues arises.

1. Access Right

2. Management of Simulation taneous access

1. Acress Right

Access Right Provides number of options in which way particular file can be accessed

@ None: To enforce restriction, the user would not allowed to read user directory that include that file

(b) knowledge : The user can determine

that the file is exist & who is the owner. @ Execution: The user of load & execute

the Program file but cannot copy it.

@ Reading: The user can reading the File for any purpose, including copying and execution.

@ Appending: The user can add data to the file but cannot modify or delete

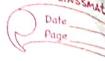
any file of the content.

(E) updating! The user can modify, delete. and add the data to the file.

9 Deletion: user can delete file from Swhen

(b) Specific user: Any Indival user

(i) user group: set of User (i) All : All the userwh



	2. Simultan eous Access:		
	· When access.		
" while	or update a file to more than one user		
min mi	os or file manage and one user		
P 31.	Decipling management i enforce the		
	· Brute passe		
	entire file when we was a lock the		
Sin	and diverging it.		
	File Sharing is also known as file-swapping		
	Tile Sharing is also known as file sures		
-) -	o trace days of the -swapping		
9.86	ox - s accessing or sharing of Circ		
	or more users or user group.		
	9.000		
	- More than one		
-,42	- MMW: Large Scala Circ		
*~	- WWW: Large Scale file sharing system		
•	Content of file		
- April 1	Offile Name		
2-14-24			
Burger C	(5) File Agre Basic		
. Le 10	(3) File organization 13051		
- 1-75	1) Volume		
Section .	(2) Glossy		
	2) Starting Address Address information		
	(3) Size used Address information		
- 1	G) Size allocate		
	(D) Oumper		
4-11-1			
1 0,15	Theormaline I have		
	Formited Actions) TO		
	Info		

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HO MORPHONE AND LANGE



The second secon
(a) Order of Last reader (b) Date last read access (c) Date last read access (d) Date last read access (e) Date last modified (f) Date last modifier (g) Date of Last modifier (
• Directory Structure: ① openiations performed on fire:
① Search (grep) ② create (chmod)
@ negate Directary (IS)
(a) Logical struture of Directory:



•	Free space Management:		
	when memory is allocated dynamica It is Eesponsibility of 05 to management		
1987	it organismos of os to management		
-	Techniques to manage free space		
-	DBitmap @ Linked list @ Grouping @ Cour		
-	1) Bitmap Vector Free space managemen		
	H -> W W W O . O . I		
	1 1 1 1 1 1 1 P2 P2		
	Pt 000 1 1 0 0 1 1		
_	P2 Allocation		
	THIS CUSTON		
	Deallo (cotion.		
-	2) Linked list free space monageme		
	1100		
	199 Head		
- 202	P 200 P2 100		
- 3	M 300.		
- Red	PL 400 PIH Start end = Stritume of		
-	linkedist		
	The Contract of the Contract o		
- Court	1 100 1199 = P1 200 299 = U300 199 = P2 40 60		
- 25 6			
- 3	(Jac effaux)		
d			