## Assignment No.3

		1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
0.1	preemtive schedulin	een preemtive and non-
ADS.	preemtive	VIOU- bleewting
	process can be interrupted in between	DInterrupt until it terminate itself or its time is up.
	It has overhead of scheduling the process.	
(A)	(031 332	JH IS: rigid:  UNO COST associated
		of cru utilization low.
6)	F.g. Round - Robin, Shortest remaining time first	No. of St.
* r		1
0.0	Mhich of the following result in startation	swing scheduling algorithm  ound-Robin d) Priority schoduling
Ans	come before other wait	process, the other process long time but it is clear will definitely get their , so it will not suffer

		· · · · · · · · · · · · · · · · · · ·	Date	)		
	C			\		
72	From Storvation In Round-robin there is a fixed time					
1. 29	TV Boang -	every process	att 490 illiner			
	quantum & &	every process	o starvation	7		
۵)	chance to ea	xecute, so n	f higher ou	20		
(2)	In priority	scheduling ?	then la	it		
	Process will	keep on comi	i or time of	1		
	priority pro	keep on comin	Charteen s	A		
<u> </u>						
	time KEED	priority proces	es satter to	M		
	Starration,	1. 12 (1) 1. 1. 1.		\ \		
		137	terribility of a	_		
0.3	consider the	e following so	5+ O+ 5100683			
	coith length	OF CPU burst 9	iven in millise	On		
-				_		
	Process	Burst Time	Priority	_		
	PI	2	2	_		
	P2	2 2 1 1		_		
	Р3	8	4	_		
	P4	Ч.	2	í		
	P5	S	3			
	The process	die assamed	to have anive	li		
	Older PI, P2	, P3, P4, P5 W1	at time o.			
Ans.	a) Draw Gan	H chart for fol	lowing agorith	100		
without	TFCFS:	Concession of	Profession 1			
		10/11/16	ni dina 1	_		
1. 1. 1.	Pi. R2,	P.3. 1 1 PW	P5 : 18	_		
	0 2 110	3	15 .20	_		
	0.70					
3 2 2	2)sJf	<u> </u>		_		
		04.		)		
	P2 P1	P4 P5 P3.		)		
. ,	0 1	12 12	20	_		

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Hil	MOD	breemt	ive i priority	schedulingi
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P2	PI	P4	P5	P3	- 4 / - 1 3	
Ò		3	7	2	٥	

	PI	P2	.63	PU	P5	P3	PH	PS	P3	P5	1.43	
(	2		3 5		7	9 11	1	3 1	Š	7	8	20

b) What is the turnaround time for each process for each of scheduling algorithm in part a?

ADS.

			Management of the Control of the Con	Lt v t t t t		
	Process	FCFS	SJF	Priority	RR	
		. 7		• • • • • • • • • • • • • • • • • • • •		
-	PI	2	3	3	2	
	P2	3	1	1	3	
	P3		20	20	20	Y
	PY	15	7	1	13	
	P5	20	12.0	2	18	
						eric consumeration

I what is the waiting time for each process?

Ans.

Processes	FCF5	SJF	Priority	RR
PI		1	1	0
P 2	2	0	0	2
P3	3	12	12	12
PY	(1	3	3	9
P5	5	7	7	13

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d) which of the algorithm results in minimore average wouting time cover all processes)?

Ans.i) Average waiting time for FCFS
= 0+2+3+11+15 = 6.2

Average waiting time for SJF

Average waiting time for priority 56th Schedwing algorithm = 1+0+12+3+7 = 4.6

 $= \frac{1+0+12+3+1}{5} = 4.6$ 

Average waiting time for Round Robin algorithm = 0+2+12+9+13

= 7.2

algorithm have same average waiting time. Therefore SJF and priority

scheduling algorithm has minimum average waiting time over all processes.

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for execution at time indicated, each process will run for amount of time listed. In answering the question use non preemtive scheduling and base all decision have information you have at time decision must be made.

+	0.00		1 " " " 1. 7 1. 7 1. 7
	Process	Arrival time	Burst time
	PI	0.0	DUIST MITC
	P2	0, 4	4
	<b>P3</b>	1.0	)
-			

of what is average turnoround time for this

process with the FCFS scheduling algorithm?

Ans. PCFS scheduling algorithm
Turnaround Time =

completion Time - Arrival Time - waiting time - turnaround time -

Burst Time

FCFS Ganth chart -

PI	P2	P3	
0 2	3	12 1	3

Process	time combletion	Turnaround time	en'Hipow Hime
P.)	8	• .	8-8=0
P2	12	12-0.4=11.6	11.6-4-7.6
P3	13	13-1.0=12	12-1=11
CONTRACTOR OF THE PROPERTY OF			

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		Sanc					
	Himeis						
· \/	Average tumatound time:						
** ** **	111111111111111111111111111111111111111						
	$\mathcal{A}$	111					
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	= 316, = 10.53	6. 12					
_	and the second of the second	11.					
15	and a site of a second of the	2 10 2 11					
P	What is average turnaround time	- FOI This					
	process with SJF?						
Ans.	Ganti chart : 1 1 1 1 1 1 1	?					
	P1 P3 P2	,					
	0 8 9 13						
· · · · · ·	Process completion Turnaroun	d: waiting					
1 1 77	time : time	- time					
	The state of the s	7.1					
	P1 8 8-0-8	0					
	P2 13 13-0.4=12.6	8.6					
	P3 9-1.0=8	1 7					
	Average turnaround time =						
	8 + 12.6 + 8						
	3						
	= 28.6						
	3						
p hith	100 Line of 7.09.53; 11.00.900.1 (0)	931: )					
4.9111	10. 10. 10. 10. 10. 10. 10. 10. 10. 10.						
<i>c</i> ]	SJF with I unit CPU I'del time						
Ans	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						
	H State Maria State Stat	``					
11 :	P3 P2 P1						
	0 1010 2 6 14						
	time						

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0100000	A 1				
Process	Arrival	Burst	<b>C7</b>	times omit	waiting time
P1 p2 p3	0.0	8	14 6 2	5.6	6

Average Turnaround time =

3

20.6

3

6.87