## Assignment No: 3

	O .	20UCS 30 3
Q.I)	Differentiale between precescheduling	emtire and non-premtire
	Preemplive	Non-preemplive
	i) Process can be interrupted in between	Interrupt until it terminate itself or it's time is up
	2) It Bas overhead of scheduling the process	It does not have 'overhead.
	3) It is flexible	It is rigid
	4) Cost associated	No cost associated
	5) (PU utilization high	(PU utilization low.
	6) Eg Round-Robin, shortest remaining time	E.g. FCFS, SJF
	First.	
Q.2)	Storyation.	heduling algorithm result in
	a) FCFS b) SJF c) Round a) FCFS	- Robin d) Priority - scheduling
	d) Priority scheduling	
Q.3)	Consider the Pollowing set cru burst given in milli	of process with length of
	The process are assumed PI, P2, P3, P4, P5 all ad	to have arrived in order

 Process	Burst Time	Priority
PI	A STATE OF THE PROPERTY OF THE	2
 P2	)	1
P3	8 .	4
P4	4	2
PS	5	3

the state of the second

a) Draw Ganth chart for Pollowing algorithm:

PI	P3_	P3	P4	P 5
0	2	3 1	1	5 20

2) SJF

	P2	191	P4	P5	193	
(		1	3	7	12	20

3) Non Preemtive priority scheduling

	P2	PI	PA	P.5	P3	
C	)	1	3	7	12	20

4) Round Robin (7.9 = 2 mls)

1	PA	P2	P3	PA	P5	P3	P4	P5	Tp	3	PS	Pa	1
	0 2	2 ;	3 -	5	1	9	.1	13	15	1	7	18	20

b) What is the turnarround time for each process for each of scheduling algorithm in Park 0?

,						
	Process	FCFS	SJF	Priority	RR	-
-				O .	Michigan State of the Section of the	
	PI	2	3	3	2	
	P2	3	1		3	The special section is a second
	b3	()	20	20	20	
	P4	15	7	7	13	-

c) What is the waiting time for each process?

12

12

18

20

1						٩
		1		Priority		Total and the second second second
	PI	0	1	No.	0	THE PERSON NAMED IN
1	P2	, 2	0	0	2	The state of the s
	P3	3	12	12	12	-
	P4	11	3	3	9	
	PS	13	· nit	1.73 m m #	13	
			CHICAGO TO STATE OF THE STATE O	TANKS AND THE PERSON NAMED IN THE PERSON NAMED IN COLUMN	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE O	-

d) Which of the algorithm results in minimum average waiting time cover all processers? i) Average waiting time for FCFS

= 0+2+3+11+13 6.2

P5

ii) Average waiting time for SJF

iii) Average weiting time for priority scheduling algorithm:

= 1+0+12+3+7 - 4.6

iv) Average waiting	time for rou	end robin algorith
= 0 + 2 + 12 + 9 + 13	- 7.2	Janah

.. SJF & Priority scheduling algorithm have some average waiting time

:- SIF + priority sheduling algorithm has minimum average waiting time i.e. 4.6 over all processes

(2.4) Suppose that following process arrive for execution of time indicated each process will run for amount of time listed. In answering the question use non preemptive scheduling and base all decision have information you have at time decision must be made.

Process	Arrival Time Burst time
· P1	0.0
P2	0.4
P3	1.0

a) What is the average turnarround time for this process with FCFs scheduling algorithm?

Turnarround Time =

- Eurnarround Lime - byrst time

FCFS Gantle chart:

	61	P2	P	3	1
C		8	12		13

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1 LESO 1	. C.	
	1	
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	Proce	ss	completion	Turnarround	waiting
_	PI		8	8-0=8	8-8 = 0
	P3		13	13-1.0 = 12	11.6-4 = 7.6

## b) What is average turnarround time for this process with SJF?

T	PI	P 3		P2	
0		8	9	13	

	Process	completion	Turn arround	waiting Lime	
		time	Lime	A realist	
_	PI	8	8-0=8	0	
	P2	13	13-0.4=12.6	8.6	
	Р3	9	9-1-0=8	7	
	A TOTAL CONTRACTOR OF THE PARTY	The second secon	Branch Mr Breakfarred alexan da breakfarred a demonstrate of the destroy.		-

Average TurnaTround Lime =

8+12.6+8

