Operation System
Auxignment-1

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process what is considered the following process the following

- i) ming fcfs
- ii) NON-preemptive SSF
- iii) preemptive SJF

Process	Arrival	Burst
P,	O	8
P2	o ·4	4
ρ3		, t ,

i) wing FCFS;

	Pi	P ₂	P3	
0	8	١	2	13

Proteu	arrival	Bush Jime	walting time	tworound
Pı	0	8	0-0=0	8+0=8
P ₂	0.4	4	8-0-4=7.6	4+7.6=11.6
P3	1	1	12-1 =11	1+11=12

Average Awar award time = 8 + 11.6 + 12= $\frac{31.6}{3}$ = 10.53 ms

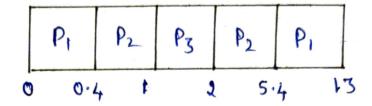
ii) Non preemptive SJF

	P	P3	P ₂
0	8	0	13

process	Arrival Hime	Bust	waiting thine	turn around time.
Pı	0	8	0-0=0	8+0=8
P ₂	0.4	4	9-0-4=8-6	4+8.6=12.6
P ₃	1	1	8-1=7	7+1=8

Average Lurin around time = 18+18+18 = 29.6

\$iii) pre omph've SJF



Proteus	Arrival Hime	Hime	woulting time	two around the
Pi	0	8	[0+15-4-0-4)]-0 = 5	8+5213
P ₂	0-4	4	[0.4+(2-1)]-0-4	4+125
P3	(1	[1-1] =0	1+0=1

ex consider the following process with CPU burst time

Process	Burghtime	priority
or Py	10	3
P2	1	V
P3		3
P4	1	4
P5-	5	2

process are assisted in all order of time o.

FCFS, SJF

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i) FCFS .

	Pt	Pz	P ₃	P4	P ₅
0	10	11	13	, t2	, 19

Proceu	Execution Lime	woulting time	Two wound time
Pi	10	0	10
P	t e	lo	, v
Pz	2	\t	lz
PA		وم ۲۵	الم
Ps	5	14	19

woulting thine = 48 ms.
Turn arround time = 67 ms

ii) SJF

	P2	P4	P3	Ps	P	
C		2		0	1	9

Proceu	Execution	waiting	Two wound it me.
P,	10	9	10+9=19
P ₂	\ \ \	©	1+0=1
Pz	1	2	2+2=4
P4	1	b.	1+1=1
Ps	5 ~	4	5+4=9

Total waiting time = 16 ms Total turnoround time = 35 ms

(iii) Non preemptive priority

PA	Ps	P,	P3	P4	
0	1	, 1	6 19	3 10	1

P	rocen	Busel	priority	worth ug	two around time.		
	Pi	10	3	6	10+6=16		
	PL	1	1	0	1+0=1		
	P3	2	3	(હ	2+16=18		
	P4	١	4	18	1 +18 =19		
	P ₅	5	2	1 ,	5+1=6		

Total deven around time = 60 Ms

iv) Round robin (time quantum=1 nu)

	Pı	P2	P3	P 4	P ₅	Pi	P3	Ps	P,	P ₅	Pi	P ₅	P,	P ₅	Pi	
E	1	2	3	L	7 5	, 1	b 7	8	O	1	0 1	1	2 1	3 14		19

		,		
	process	exe cution ewith	wouthing thine	twin around hime
-	Pi	ĺĎ	9+(5-1)+(8-6)+(10-9) +(12-11)+(14-13)=9	1049=19
	P2	N. Carlot	1	141=2
	P ₃	2	2+16-3)=5	2+5=7
	P4	1	ਤ	1+3 = 4
	Ps	5	4+(7-5)+(9-8)+(11-10)+(13-12)=9	5+9=14

Total Junaround time = 46 ms Total waiting time = 27 ms.