## Digital Assignment I

RAJAT SINGH

22 MC+0139

1)	Process	Berst Time	Priority
	P <sub>t</sub>	14	1
	PL	3	2_
	P3	9	3
	Pu	11	4
	Ps	7	5

FCFS

TPI.	7 P2 1	P3 1	Py	P	< 1
0	14 13	26		37	47

Process	Burst 7ime	Completion Time	Tern from d Time	Waiting Time
Pi	14	14	14	6
P2 ~	3	17-	17	14
P3	9	26	26	17
Py		37	3 7	2-6
Ps	7	44	47	37
		1	138	99

Aug Torn Around 7/me = 
$$\frac{138}{5}$$
 = 27.6 ms  
Aug Weiting 7 ime =  $\frac{94}{5}$  = 18.8 ms

SJF

0) 0		The second secon	
12 1 13	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P2   P4	D,
7	-		, ,

Process	Berst Time	Comple tion Time	Turnaround Time	Woiting Time
Ρ,	14	44	49	30
ρ,	. 3	3	3	0
P <sub>3</sub>	9.	. 19	19	10
P4	11.5	30	30	79
Ps	7	L 0 2 2 2 1	10	3
		App 140 A 2	106	62

Avg Turnaround Time =  $\frac{106}{5}$  = 21.2 ms Avg Waiting Time =  $\frac{62}{5}$  = 12.4 ms Priority (high priority number has more priority)

Ps	P4	P3	P2	Pi /
0 7		18	27 30	49

Process	Burstline	Completion Time	Twn around Time	Waiting Time
ρ,	19	44	4 4	36
P <sub>1</sub>	3	3 6	36	27
P3	9	27	27	18
Py	i,	18	18	
Ps	7	7		7
			7	Ø2
	2500200 [6		126	82-11
Avy	Turn around	$7ime = \frac{126}{5}$	= 2525,2 ms	1

			1170 1001	Mark The Control of the Control	141
P1   P2   P3	Pul Ps   P	1 P2 P3	Pu Ps Pi	P3   P4   P5	P1 P3 P4 P5 ->
0 2 4	8 10	12 12 1	5 12 19 21	23 25 27	P1   P3   P4   P5   ->

-> Pi	Ps	Py	PI	Py	PI
36	37	39	41	4	4

Process	Burst Time	Completion Time	Temaraund Time	Weiting Time
Pı	17	44	54	30
f <sub>2</sub>	3	13	13	16
ρ3	9	37	37	2 8
Ph		h 2	42	31
P <sub>5</sub>	7	34	34	27
		1	170	12-6

Avg Turnaround Time =  $\frac{176}{5}$  = 34 ms Avg Waiting Time 2.  $\frac{126}{5}$  = 25.2 mg

Algorithm	Avy To	rm arand	7imi(m	s) Ary	wasting	7im (	45)
FCFS	27.	6		P	18.8		
SJF	21,2				12,4		
Pro d							
Priority	.25.2		N. Contraction	1	6.4		
Round Robin	3		ni wa				
Kubin	34			25	5.2		
	. 8 4		A STATE OF				
Proced	3	Arrival	Time	Burst	Time	4	
Pı	2.2	0		9			
P <sub>2</sub>		F		12			
P <sub>3</sub>		. 2		3			ib.
Py						. 31 (4)	T.
		<b>\$</b>	12.5	18.	St. Jugar	p. Alle	

Part of the second of the seco	National Control of	2.00	
Pi Pr		P3/ Ph	and the second second second second second
Particular designation of the second	A THE PARTY NAMED IN	13 17	
0	2 9	14	

Process	Borst Time	Arrival Time	Completion Time	Turnarand 7,me	Waiting Time
$\rho_{\rm l}$	9	0	9	q	6
P <sub>2</sub>	12		21	20	8
P3	3	2	24	22	19
0.			42	39	21
		* 1		90	48

Avg Turnaround Time =  $\frac{90}{9}$  = 22.5 ms Avg waiting 7 me =  $\frac{48}{9}$  = 12 ms

SRT

## Premption be done after long

			0 T	^	1 P.		Pu	
Pi	Pil	Ps	3	PI	12.	- Indiana		
				1.2		24		72

Process	Borst Time	Arrival Time	Completion Time	Tumerand Time	Veiting The
ρ, .		0	12	12	3
PΣ	12	l	24	23	11
Ps.	3	2	5	3	O T
f4	18	3	42	39	2/1
				77	30

Process	Birst Time	Arrival Time	Completion Time	Turnground 71 me	Washing Tome
	9	0	28	24	19
Pr	12	1	34	3 3	21
P3 P4	3	2_	13	11	8
d		3	42	39	21
			1	111	69

Avy Turn around Time =  $\frac{111}{h}$  = 27.75 Avy Waiting Time =  $\frac{69}{h}$  = 17.25

## Compurison Table

Algorithms	Avy Turnarand 7in	me(ms) Any Waiting Time (ms)
FCFS	22.5	12
SRT	19.25	8.75
Round Robin	27.75	12.25