Name: Nimia Nasir Reg No: 19- CP-35

# Operating System

Lab: 12

Round - Robin Scheduling:

In the Round Robin Scheduling, processes are dispatched in a FCFS manner but are given a limited amount of CPV time called a quantum Round Robin Scheduling is preemptive (at the end of time-5lice).

## Enamples:

Example:1

Quantum=15;

Jobs	Execution time	Arrival time
0	75	0
1	40	10
2	25	10
3	20	80

#### Answey:

Jo	31	J2	Jo	71	J2	Jo	Ji	J 3	Ju	Jo	J3	34	
0	15	30	45	60	75 8	5 10	00	110	125	140	155	So	175

### Turn Around time:

calculate waiting time:

waiting time:

$$Job J1 = (15-10) + (60-30) + (100-75)$$

Example : 2

Process	Burst Time	Arrival	Start	wait	Finish	TA
1	53	0	0	?	134	134
2	17	0	20	?	37	31
3	68	0	37	?	162	162
4	24	0	57	?	121	121

Answer:

1 -	14	n	P3	P4 1	1   P3	13	
37 57	77	9-	7 (1	7 121	134	154	162
	37 57 es:	37 57 77	37 57 77 9-	37 57 77 97 11	37 57 77 97 117 121	37 57 77 97 117 121 134	P3 P4 P1 P3 P4 P1 P3 P3 37 S7 77 97 117 121 134 154

$$P1: (77-20) + (121-97) = 81$$

Enample: 3 Q= 4

Process	Burst Time	Arrival	Staut	wait	Finish	TA
1	24	0	0	6	30	30
2	3	0	4	4	7	7
3	3	0	7	7	10	10

#### Answer:

				-				
PI	P2	P3	PI	PI	PI	PI	PI	
0	4 -	7	0	14	18	22	26	30

Average waiting Time: (6+4+7)/3 = 5-67

Average Turn around time: (30+7+10)/3=15.67

Enample: 4

Process	Burst Time	Arrival	start	wait	Finish	TA
	10	0	0	0	10	10
2	29	0	10	32	61	61
3	3	0	20	20	23	23
4	7	0	23	23	30	30
2	12	0	30	40	52	52

#### Answer:

PI	P2	b3	P4	P5	P2	P5	Pz	
0	10	20	23	30	40	So s	2	61

Average waiting lime = (0+32+20+23+40)/5

Average turn around time = 10 + 39 + 42 + 49 + 61/5