T.Q = 2

Round Robin

	A.T	B.T	TaT (ET-AT)	W.T (TaT-BT)
P0	0	5 3 1	13-0 = 13	13-5 = 8
P1	1	3 1	12-1 = 11	11-3 = 8
P2	2	1	5-2 = 3	3-1 = 2
P3	3	2	9-3 = 6	6-2 = 4
P4	4	3 1	14-4 = 10	10-3 = 7

Que   P0 P1 P2 P0 P3 P4 P1 P0 P4

P0	P1	P2	P0	P3	P4	P1	P0	P4	

0   2   4   5   7   9   11   12   13   14

Priority Based Scheduling

Non-Preemptive

PID	AT	B.T	Priority	JaT (ET-AT)	W.T (TaT-BT)
P1	0	4	2	4 - 0 = 4	4 - 4 = 0
P2	1	3	3	15 - 1 = 14	14 - 3 = 11
P3	2	1	4	12 - 2 = 10	10 - 1 = 9
P4	3	5	5	9 - 3 = 6	6 - 5 = 1
P5	4	2	5	11 - 4 = 7	7 - 2 = 5

* More Priority value - heigher priority

P1	P4	P5	P3	P2	
0	4	9	11	12	15

Preemptive

	AT	B.T	Priority	JaT	WT
P1	0	4^3	2	15 - 0 = 15	15 - 4 = 11
P2	1	8^2	3	12 - 1 = 11	11 - 3 = 8
P3	2	1	4	3 - 2 = 1	1 - 1 = 0
P4	3	5	5	8 - 3 = 5	5 - 5 = 0
P5	4	2	5	10 - 4 = 6	6 - 2 = 4

P1	P2	P3	P4	P5	P2	P1	
0	1	2	3	8	10	12	15

SRTF (Shortest Remaining Time First) (Preemptive)

P.id	AT	BT	TAT(ET-AT)	WT(TAT-BT)
P1	3	1	4-3 = 1	1-1 = 0
P2	1	4 2	6-1 = 5	5-4 = 1
P3	4	2	8-4 = 4	4-2 = 2
P4	0	6 5	16-0 = 16	16-6 = 10
P5	2	3	11-2 = 9	9-3 = 6
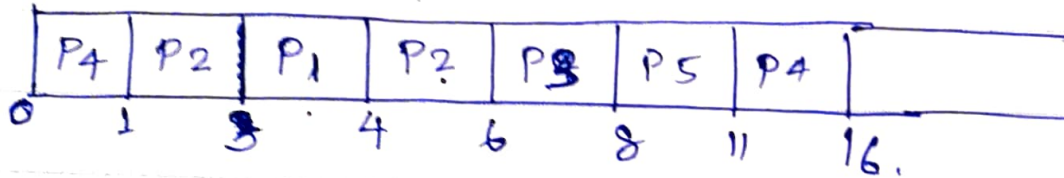
P4	P2	P1	P2	P3	P5	P4	
0	1	3	4	6	8	11	16

FCFS

P.ID	AT	B.T	TAT (ET−AT)	WT (TAT−BT)
A	3	4	7−3 = 4	4−4 = 0
B	5	3	13−5 = 8	8−3 = 5
C	0	2	2−0 = 2	2−2 = 0
D	5	1	14−5 = 9	9−1 = 8
E	4	3	10−4 = 6	6−3 = 3

$TAT = ET - AT$
$= WT + BT$

Gantt chart

C	A	E	B.	D

0 · · 2 3 · · · 7 · · 10 · · 13 · · 14.
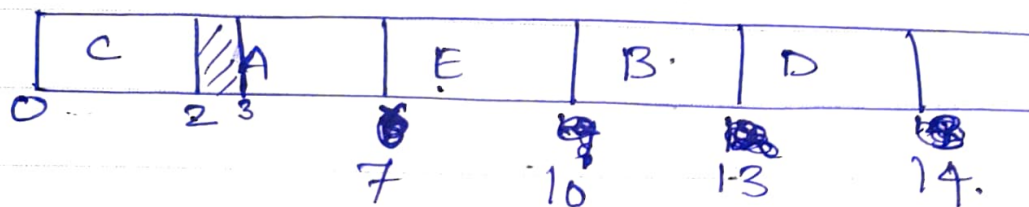
Shortest Job First (Non-Preemptive)

{ Convey effect / starvation }

P.id	A.T	B.T	TAT = (ET−AT)	WT (TAT−BT)
P1	3	1 ✓	7−3 = 4	4−1 = 3
P2	1	4 ✓	16−1 = 15	15−4 = 11
P3	4	2 ✓	9−4 = 5	5−2 = 3
P4	0	6 ✓	6−0 = 6	6−6 = 0
P5	2	3 ✓	12−2 = 10	10−3 = 7.

P4	P1	P3	P5	P2	

0 · · 6 · · 7 · · 9 · · 12 · · 16