



Bahria University
Discovering Knowledge

Subject: **Operating System**

Course Instructor: **Sir Mudassar**

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First Come First Serve (FCFS)

System:

Process	Arrival Time	Burst Time
D	0	3
B	2	8
A	4	23
C	10	25
E	15	9

ANSWER:

Input

Algorithm

First Come First Serve, FCFS

Arrival Times

4 2 10 0 15

Burst Times

23 8 25 3 9

Solve

Output

FCFS

Gantt Chart

D B A C E

0 3 11 34 59 68

Job	Arrival Time	Burst Time	Finish Time	Turnaround Time	Waiting Time
D	0	3	3	3	0
B	2	8	11	9	1
A	4	23	34	30	7
C	10	25	59	49	24
E	15	9	68	53	44
Average				144 / 5 = 28.8	76 / 5 = 15.2

Shortest Remaining Time First (SRTF)

System:

Process	Arrival Time	Burst Time
D	0	3
B	2	8
A	4	23
C	10	25
E	15	9

ANSWER:

Input

Algorithm

Shortest Remaining Time First... ▾

Arrival Times

4 2 10 0 15

Burst Times

23 8 25 3 9

Solve

Output

SRTF

Gantt Chart

D B A E A C
0 3 11 15 24 43 68

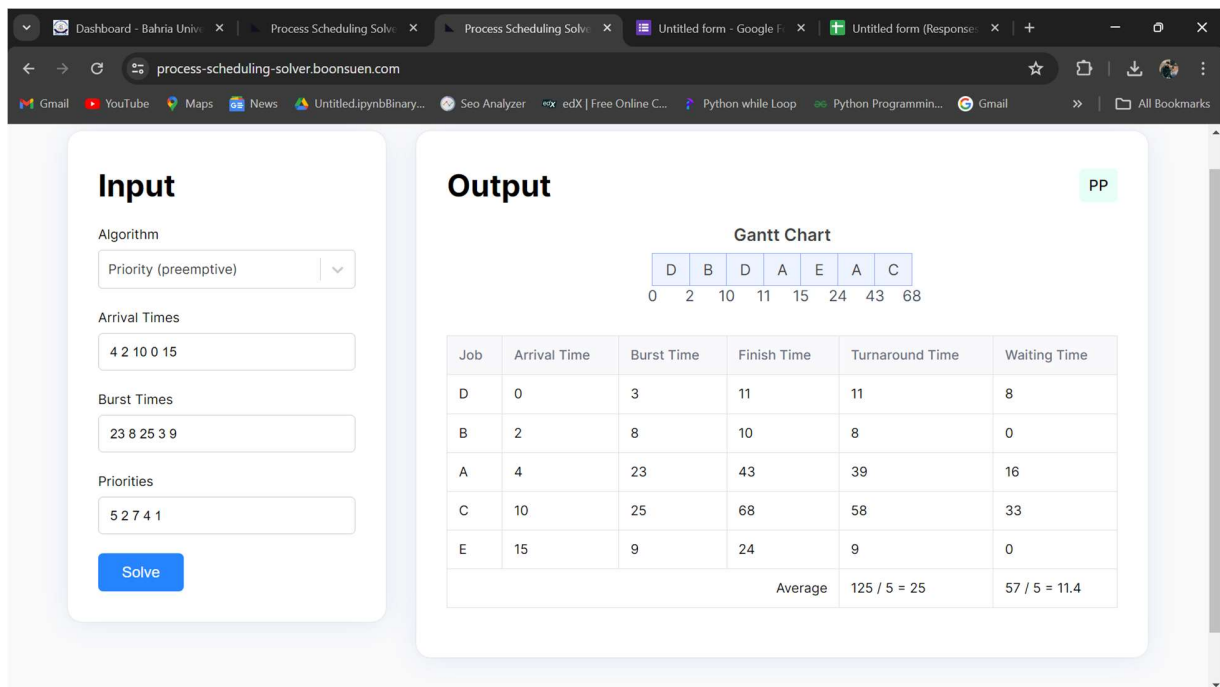
Job	Arrival Time	Burst Time	Finish Time	Turnaround Time	Waiting Time
D	0	3	3	3	0
B	2	8	11	9	1
A	4	23	43	39	16
C	10	25	68	58	33
E	15	9	24	9	0
Average				118 / 5 = 23.6	50 / 5 = 10

Priority scheduling scheme

System:

Process	Arrival Time	Burst Time	Priority
D	0	3	4
B	2	8	2
A	4	23	5
C	10	25	7
E	15	9	1

SIMULATOR OUTPUT:



Round Robin CPU scheduling scheme (RR)

System:

Process	Arrival Time	Burst Time
D	0	3
B	2	8
A	4	23
C	10	25
E	15	9

Time Quantum = 9

SIMULATOR OUTPUT:

