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**Topic: Scheduling Algorithms simulation**

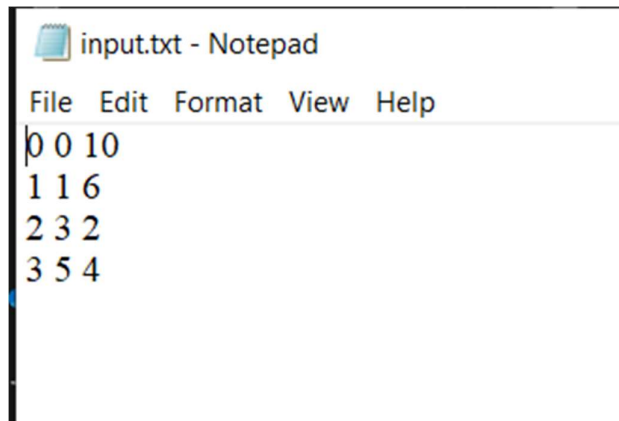
1)FCFS

2)SRF

3)SRTF

4)RR

Screen shots of output:



```
input.txt - Notepad
File Edit Format View Help
0 0 10
1 1 6
2 3 2
3 5 4
```

Input is given :- id, arrival time, total cpu burst

1) First come first serve:

#### TERMINAL

```
0 0 10
1 1 6
2 3 2
3 5 4
which process:
1. first come first serve
2. shortest job first
3. shortest remaining time first
4. round robin
1
10 10 0
16 15 9
18 15 13
22 17 13
gnatt chart
0 0 0 0 0 0 0 0 0 1 1 1 1 1 2 2 3 3 3 3
avarage turn around time: 14.25 avarage wait time: 8.75
```

2)Shortest job first:

```
id arrival burst
0 0 10
1 1 6
2 3 2
3 5 4
which process:
1. first come first serve
2. shortest job first
3. shortest remaining time first
4. round robin
2
gnatt chart:
0 0 0 0 0 0 0 0 0 0 2 2 3 3 3 3 1 1 1 1 1 1
avarage turn around time: 12.75 avarage wait time: 7.25
```

3)Shortest remaining time first:

```

id arrival burst
0 0 10
1 1 6
2 3 2
3 5 4
which process:
1. first come first serve
2. shortest job first
3. shortest remaining time first
4. round robin
3
0 1 1 2 2 1 1 1 1 3 3 3 3 0 0 0 0 0 0 0 0
average turn around time: 10 average wait time: 4.5

```

#### 4)Round Robin:

Here -2 is for demonstrate Switching in process (context switchnig).

```

id arrival burst
0 0 10
1 1 6
2 3 2
3 5 4
which process:
1. first come first serve
2. shortest job first
3. shortest remaining time first
4. round robin
4
Enter Quantum time.
4
contextswitch time:
1
0 0 0 0 -2 1 1 1 1 -2 2 2 -2 0 0 0 0 -2 3 3 3 3 -2 1 1 -2 0 0 -2
average turn around time: 19.5 average wait time: 14

```