Scheduling Algorithms Using Excel File

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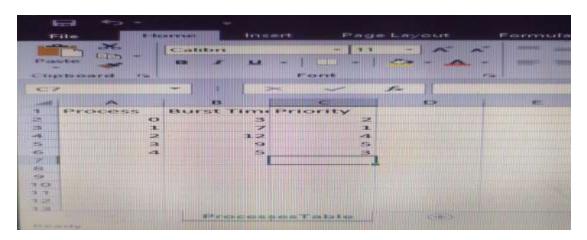
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Operating Systems

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Sir Waqas Ahmed

Excel File



Shortest Job First

Output

```
Waiting Time Of Process
                      : 0 = 0
Execution Time of Process : \theta = 3
Waiting Time Of Process
                       : 1 = 3
Execution Time of Process : 1 = 8
Waiting Time Of Process
                       : 2 = 8
Execution Time of Process : 2 = 15
Waiting Time Of Process
                       : 3 = 15
Execution Time of Process : 3 = 24
Waiting Time Of Process
                       : 4 = 24
Execution Time of Process : 4 = 36
50
Average Waiting Time =
                          10.0
```

First Come First Served

Output

```
First Come First Serve
Waiting Time Of Process
                         : 0 = 0
Execution Time of Process : 0 = 3
Waiting Time Of Process : 1 = 3
Execution Time of Process : 1 = 10
Waiting Time Of Process : 2 = 10
Execution Time of Process : 2 = 22
Waiting Time Of Process : 3 = 22
Execution Time of Process : 3 = 31
Waiting Time Of Process
                         : 4 = 31
Execution Time of Process : 4 = 36
66
Average Waiting Time =
                            13.2
```

Priority Scheduling

```
🖺 Eile Edit View Navigate Code Refactor Run Jools VCS Window Help
ScheulingAlgorithms | 65 main.py
               def findTurnAroundTime(processes, [], wt, tat):
    # Calculating turnaround time by
    # adding bt[i] + wt[i]
Eile Edit View Navigate Code Befactor Run Jools VCS Window Help
ScheulingAlgorithms # main.py
               def priorityScheduling(proc, n):
               # Driver code
1f _name_ -- "_waln_":
                    priorityScheduling(proc. NBSFn)
```

Output

```
Order in which processes gets executed 3 2 0
Processes | Burst Time | Waiting Time 3 7 0 2 1 7 0 1 8

Average waiting time = 5.0
```

Round Robin

```
File Edit View Mavigate Code Befactor Run Jools VCS Window Help
SchmilingAlgorithms / 🎉 main.ey
 — /5 main.py
                wt - [G] * n
tat = [G] * n
                burst_time = functionn["Burst Time"].tolist()
                 quantum = 2;
                 findavgTime(proc, n, burst_time, NBSPquantum)
■ Bookmarks
```

Output

Tocesses b	ar ac i Tille	Waiting Time
1	3	6
2	7	15
3	12	19
4	9	20