Operating Systems – OS

Lab Task 14 (OS-014)

Submitted by:

Muhammad Roshaan Idrees (56177)

Submitted to:

Sir Shahzad Ahmed Khan

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Tasks

Solution:

Task 1:

First Come First Serve

Task 2:

Shortest Job First

Task 3:

Priority Scheduling Algorithm


```
muhammadroshaanidrees56177@Ubuntu:~/lab14$ gcc task3.c -o psa
muhammadroshaanidrees56177@Ubuntu:~/lab14$ ./psa
Enter Total Number of Process:4

Enter Burst Time and Priority

P[1]
Burst Time:23
Priority:76

P[2]
Burst Time:45
Priority:98

P[3]
Burst Time:23
Priority:65

P[4]
Burst Time:76
Priority:87
```

```
Process  Burst Time      Priority      Waiting Time    Turnaround Time
P[2]     45              98            0               45
P[4]     76              87            45              121
P[1]     23              76            121             144
P[3]     23              65            144             167

Average Waiting Time = 77.50
Average Turnaround Time = 119.25
muhammadroshaanidrees56177@Ubuntu:~/lab14$
```

Task 4:

Round Robin

Task 5:

First Come First Serve (CPU Scheduling Algorithm)

Bonus Task:

Preemptive and Non-preemptive SJF Algorithm