EXPERIMENT - 7

Operating Systems Lab

AIM

Write a program to implement CPU scheduling for first come first serve.

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Aim:

Write a program to implement CPU scheduling for first come first serve.

Source Code:

```
process=("p1" "p2" "p3" "p4" "p5")
bt=(0\ 0\ 0\ 0\ 0)
wt = (0 0 0 0 0)
tat=(0 0 0 0 0)
bt[0]=1
factor=0
wtSum=0
tatSum=0
echo "We will be using FCFS for 5 processes"
for ((i=0; i<5; i++))
do
 echo "Enter burst time for process ${process[i]}"
 read ele
 bt[i]=$ele
 wt[i]=$factor
 factor=$((factor + ele))
 tat[i]=$((bt[i] + wt[i]))
 wtSum=$((wt[i] + wtSum))
 tatSum=$((tat[i] + tatSum))
done
echo ""
echo "Process | Burst Time | Wait Time | Turn Around Time"
for ((i=0; i<5; i++))
do
 echo "${process[i]} | ${bt[i]} | ${wt[i]} | ${tat[i]}"
done
echo ""
echo "Average waiting time = $((wtSum/5))"
echo "Average turn around time = $((tatSum/5))"
```

Output:

```
reeha@Reeha:/mnt/e/sem 6/Operating Systems$ ./fcfs.sh
We will be using FCFS for 5 processes
Enter burst time for process p1
4
Enter burst time for process p2
7
Enter burst time for process p3
2
Enter burst time for process p4
5
Enter burst time for process p5
9
Process | Burst Time | Wait Time | Turn Around Time
                                      4
р1
          4
                        0
          7
                        4
                                      11
2מ
          2
2מ
                        11
                                       13
          5
                                       18
р4
                        13
р5
                        18
                                       27
Average waiting time = 9
Average turn around time = 14
```

```
reeha@Reeha:/mnt/e/sem 6/Operating Systems$ ./fcfs.sh
We will be using FCFS for 5 processes
Enter burst time for process p1
Enter burst time for process p2
Enter burst time for process p3
Enter burst time for process p4
Enter burst time for process p5
         Burst Time | Wait Time | Turn Around Time
Process
         12
                     0
                                 12
p1
                                  35
                      12
p2
         23
                     35
                                  69
рЗ
         34
                    69
p4
         5
                                 74
р5
        34
                     74
                                  108
Average waiting time = 38
Average turn around time = 59
```