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STUDENT 10 - 2005107-3
SUBJECT: OPERATING SYSTEM
IMPLEMENTATION OF FCFS SCHEDULING ALGORITHM
PROGRAM
#include int waitingtime (int procl), int n, int burst_time[], int wait_time[]) { wait_time[]
for (int i = 1: i}
int turnaroundtime (int procl), int n, int burst_time[], int wait_time[], int tat[]) {
int i
for (i = 0; i n; itt) tat[i] = burst_time[i] + wait_time[i]; return 0;
int avgtime (int procl], int n, int burst_time[]) { intait_time[n], tat[n], total_wt = 0,
total_tat = 0:
int i
waiting time (proc, n, burst_time, wait_time); turnaround time (proc, n, burst_time,
wait_time, tat): printf('Processes Burst Waiting Turn around \n');
for ( i=0; iprintf("Average waiting time = %f\n", (float)total.wt / (float)n); printf("Average
turn around time = %fh", (float)total tat / (float)n); return 0;
int main ( introcl = {1, 2, 3}; int n = size of proc / size of proc [0]; int burst_time [] = {5,
8, 123; avgtime (proc, n, burst_time);
return 0:
```

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ALGORITHM
START
Step 1- In function int waitingtime (int procl), int n, int burst_time[], int wait_time[])
Set wait_time[0] = 0
Loop For i = I and i < n and itt
Set wait_time[i] = burst_time[i-1] + wait_time[i-1]
End For
Step 2- in function int turnaround time (int procl), int n, int burst_time[], int wait_time[],
int tat[])
Loop For i = 0 and i< n and itt
Set tatli] = burst_time[i] + wait_time[i]
End For
Step 3- In function int avotime (int procl), int n, int burst_time[])
Declare and initialize wait_time[n], tat[n], total_wt = 0, total_tat = 0;
call waitingtime (proc, n, burst_time, wait_time)
call turnaround time (proc, n, burst_time, wait_time, tat)
Loop For i=0 and i Set total wt = total wt + wait time[i]
Set total tat = total tat + tat[i]
Print process number, burstime wait time and turnaround time
End For
Print "Average waiting time =i.e.total_wt/n
Print "Average turn around time = i.e. total_tat/n
Step 4- In int main()
Declare the input int procl = {1, 2, 3}
Declare and initialize n = size of proc / size of proc[0]
Declare and initialize burst_time[] = {10, 5, 8}
call avotime (proc, n, burst_time)
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STOP

