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COURSE- BSC IT
SEC-B
STUDENT ID - 2005/035
SUBJECT: OPERATING SYSTEM
IMPLEMENTATION OF FCFS SCHEDULING ALGORITHM
PROGRAM
#include int waitingtime (int proc[], int n, int burst_time[], int wait_time[])
   wait_time£oo}
for (int i = 1; i < n; i++) wait_time[] = burst_time[-1] + wait_time[-1]; return o;
int turnaroundtime (int proc[], int n, int burst_time[], int wait_time[], int tat[]) {
int i;
for ( i = 0; i < n; i++) tat[i] = burst_time[i] + wait_time[i]; return 0;
int avgtime ( int proc[], int n, int burst_time[]) { intait_time[n], tat[n], total_wt = 0,
total\_tat = 0;
int i;
waitingtime(proc, n, burst_time, wait_time); turnaroundtime(proc, n, burst_time,
wait_time, tat); printf("Processes Burst waiting Turn around \n");
for ( i=0; i printfc"Average waiting time = %f\n", (float)total_wt / (float)n); printfc"Average
turn around time = %f\n", (float)total_tat / (float)n); return o;
int main() { iptoc[] = { 1, 2, 3}; int n = size of proc / size of proc[o]; int burst_time[]
= {5, 8, 12}; avgtime(proc, n, burst_time);
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return o;

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ALGORITHM
START
Step 1- In function int waitingtime (int proc[], int n, int burst_time[], int wait_time[])
Set wait_time[o] = o
Loop For i = 1 and i < n and i++
Set wait_time[] = burst_time[-1] + wait_time[-1]
End For
Step 2- In function int turnaroundtime (int proc[], int n, int burst_time[], int wait_time[],
int tat()
Loop For i = 0 and i < n and i++
Set tat[] = burst_time[] + wait_time[]
End For
Step 3- In function int augtime (int proc [], 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 turnaroundtime(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[]
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 proc [] = { 1, 2, 3}
Declare and initialize n = size of proc / size of proc [o]
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Declare and initialize burst_time[] = \(\frac{2}{10}, 5, 8 \) Call avgtime(proc, n, burst_time)

STOP

