CPU Scheduling - First Come First Served (FCFS)

#include <stdio.h>

int main() {

int n, i;

int burst[20], wait[20], tat[20];

float avg\_wait = 0, avg\_tat = 0;

printf("Enter number of processes: ");

scanf("%d", &n);

for (i = 0; i < n; i++) {

printf("Enter burst time for process %d: ", i + 1);

scanf("%d", &burst[i]);

wait[0] = 0;

for (i = 1; i < n; i++) {

wait[i] = wait[i - 1] + burst[i - 1];

}

for (i = 0; i < n; i++) {

tat[i] = wait[i] + burst[i];

avg\_wait += wait[i];

avg\_tat += tat[i];

}

printf("\nProcess\tBurst\tWaiting\tTurnaround\n");

for (i = 0; i < n; i++) {

printf("P%d\t%d\t%d\t%d\n", i + 1, burst[i], wait[i], tat[i]);

}

printf("\nAverage Waiting Time = %.2f", avg\_wait / n);

printf("\nAverage Turnaround Time = %.2f\n", avg\_tat / n);

return 0;

}