**FCFS SCHEDULING**

#include <stdio.h>

int main() {

int n, i;

int burstTime[20], waitingTime[20], turnAroundTime[20];

float avgWaitingTime = 0, avgTurnAroundTime = 0;

// Input number of processes

printf("Enter total number of processes: ");

scanf("%d", &n);

// Input burst time for each process

printf("Enter burst time for each process:\n");

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

printf("P[%d]: ", i + 1);

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

}

// Waiting time for first process is 0

waitingTime[0] = 0;

// Calculate waiting time for each process

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

waitingTime[i] = 0;

for (int j = 0; j < i; j++) {

waitingTime[i] += burstTime[j];

}

}

// Calculate turnaround time for each process

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

turnAroundTime[i] = burstTime[i] + waitingTime[i];

avgWaitingTime += waitingTime[i];

avgTurnAroundTime += turnAroundTime[i];

}

// Print results

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

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

printf("P[%d]\t%d\t\t%d\t\t%d\n", i + 1, burstTime[i], waitingTime[i], turnAroundTime[i]);

}

// Print averages

avgWaitingTime /= n;

avgTurnAroundTime /= n;

printf("\nAverage Waiting Time: %.2f", avgWaitingTime);

printf("\nAverage Turnaround Time: %.2f\n", avgTurnAroundTime);

return 0;

}