**C program for SJF**

#include<stdio.h>

int main(){

int bt[20],p[20],wt[20],tat[20],i,j,n,total=0,pos,temp;

float avg\_wt,avg\_tat;

printf("Enter number of processes:");

scanf("%d",&n);

printf("Enter the Burst Time: \n");

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

int processes[4],num,burst\_time[4];

printf("Process %d:",i+1);

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

p[i] = i + 1;

}

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

pos = i;

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

if(bt[j] < bt[pos]){

pos = j;

}

}

temp = bt[i];

bt[i] = bt[pos];

bt[pos] = temp;

temp = p[i];

p[i] = p[pos];

p[pos] = temp;

}

wt[0] = 0;

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

wt[i] = 0;

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

wt[i] += bt[j];

}

total += wt[i];

}

avg\_wt = (float)total/n;

total = 0;

printf("Process Burst Time Waiting Time Turnaround Time\n");

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

tat[i]=bt[i]+wt[i];

total += tat[i];

printf(" %d %d %d %d\n",p[i],bt[i],wt[i],tat[i]);

}

avg\_tat = (float)total/n;

printf("Average Waiting Time=%.2f\n",avg\_wt);

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

}