```
#include<stdio.h>
int main()
{
  int bt[10]={0},at[10]={0},tat[10]={0},wt[10]={0},ct[10]={0};
  int n,sum=0;
  float total_TAT=0,total_WT=0;
  printf("Enter No.of process:");
  scanf ("%d",&n);
  for(int i=0;i<n;i++)
    printf("Arrival time of P%d=",i+1);
    scanf("%d",&at[i]);
    printf("Burst time of P%d =",i+1);
    scanf("%d",&bt[i]);
  }
  for(int j=0;j< n;j++)
    sum+=bt[j];
    ct[j]+=sum;
  for(int k=0;k< n;k++)
      tat[k]=ct[k]-at[k];
      total_TAT+=tat[k];
    }
  for (int k=0;k<n;k++)
      wt[k]=tat[k]-bt[k];
      total_WT+=wt[k];
printf("\nProcess\t Arrival time\t Brust time\t Completing time\t Turn around time\t Waiting
time\n");
for (int i=0;i<n;i++)
  {
    printf("P%d\t\t %d\t %d\t\t %d\t\t\t %d\t\t\t %d\n",i+1,at[i],bt[i],ct[i],tat[i],wt[i]);
  printf("\n\nAverage Turn around time:\n%f", total_TAT/n);
  printf("\nAverage waiting time :\n%f\n",total_WT/n);
  return 0;
}
```

"D:\study software\test\SJN\bin\Debug\SJN.exe" Enter No.of process:5 Arrival time of P1=2 Burst time of P1 =8 Arrival time of P2=7 Burst time of P2 =1 Arrival time of P3=6 Burst time of P3 =2 Arrival time of P4=3 Burst time of P4 =6

Process	Arrival	time	Brust time	Completing time	Turn around time	Waiting time
P1		2	8	8	6	-2
P2		7	1	9	2	1
P3		6	2	11	5	3
P4		3	6	17	14	8
P5		5	4	21	16	12

Average Turn around time:

8.600000

Average waiting time :

Arrival time of P5=5

Burst time of P5 =4

4.400000

Process returned 0 (0x0) execution time : 21.092 s Press any key to continue.









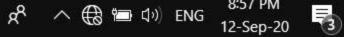












```
#include<stdio.h>
int main()
{
  int i,n,p[10]={0,1,2,3,4,5,6,7,8,9},min,k=1,btime=0;
  int bt[10],temp,j,at[10],wt[10],tt[10],ta=0,sum=0;
  float wavg=0,tavg=0,tsum=0,wsum=0;
  printf("Enter the No.of process =");
  scanf("%d",&n);
  for(i=0;i<n;i++)
  {
    printf("Enter the arrival time %d)process =",i+1);
    scanf("%d",&at[i]);
    printf("Enter the burst time %d)process =",i+1);
    scanf(" %d",&bt [i]);
  }
  for(i=0;i<n;i++)
  for(j=0;j<n; j++)
    {
      if(at[i]<at[j])</pre>
      temp=p[j];
      p[j]=p[i];
      p[i]=temp;
      temp=at[j];
      at[j]=at[i];
```

```
at[i]=temp;
    temp=bt[j];
    bt[j]=bt[i];
    bt[i]=temp;
    }
  }
}
for (j=0;j<n;j++)
{
btime=btime+bt[j];
min=bt[k];
for (i=k;i<n;i++)
{
  if (btime>=at[i] && bt[i]<min)</pre>
  {
  temp=p[k];
  p[k]=p[i];
  p[i]=temp;
  temp=at[k];
  at[k]=at[i];
  at[i]=temp;
  temp=bt[k];
  bt[k]=bt[i];
  bt[i]=temp;
  }
  }
```

```
k++;
 }
 wt[0]=0;
 for(i=1;i<n;i++)
 {
 sum=sum+bt[i-1];
 wt[i]=sum-at[i];
 wsum=wsum+wt[i];
 }
 wavg=(wsum/n);
 for(i=0;i<n;i++)
 {
 ta=ta+bt [i];
 tt[i]=ta-at[i];
 tsum=tsum+tt[i];
 }
 tavg=(tsum/n);
 printf("\nProcess\t Arrival time\t Brust time\t waiting time\t Turn around time");
 for(i=0;i<n;i++)
 {
   }
 printf("\n\nAverage waiting time:\n:%f",wavg);
 printf("\nAverage Turn around time:\n%f",tavg);
 return 0;
}
```

"D:\study software\test\FCFS\bin\Debug\FCFS.exe" Enter the No.of process =4 Enter the arrival time 1)process =0 Enter the burst time 1)process =5 Enter the arrival time 2)process =1 Enter the burst time 2)process =3 Enter the arrival time 3)process =2 Enter the burst time 3)process =8 Enter the arrival time 4)process =3

Process	Arrival time	Brust time	waiting time	Turn around time
p0	0	5	0	5
p1	1	3	4	7
р3	3	6	5	11
n2	2	Q	12	20

Average waiting time:

:5.250000

Average Turn around time:

Enter the burst time 4)process =6

10.750000

execution time : 21.255 s Process returned 0 (0x0)

Press any key to continue.















