## **PROGRAM:**

```
#include <stdio.h>
struct program
{
  int at,bt,ct,tat,wt;
}p[100],temp;
int main()
  int i,j,n,rt[100],ts,time,flag=0,remain;
  float total_tat=0.0,total_wt=0.0,avg tat,avg wt;
  printf("Enter the total no. of processes: ");
  scanf("%d",&n);
  remain=n;
  for(i=0;i<n;i++)
     printf("Enter AT of P%d: ",i+1);
     scanf("%d",&p[i].at);
     printf("Enter BT of P%d: ",i+1);
     scanf("%d",&p[i].bt);
     rt[i]=p[i].bt;
  printf("Enter the time slice: ");
  scanf("%d",&ts);
  printf("\nProcess\t\tAT\tBT\tTAT\tWT\t\n");
  for(time=0,i=0;remain!=0;)
  {
     if(rt[i]<=ts && rt[i]>0)
     {
       time=time+rt[i];
       rt[i]=0;
       flag=1;
     else if(rt[i]>0)
       rt[i]=rt[i]-ts;
       time=time+ts;
     if(rt[i]==0 && flag==1)
     {
       remain--;
       total tat=total tat+time-p[i].at;
       total_wt=total_wt+time-p[i].at-p[i].bt;
       flag=0;
     if(i==n-1)
       i=0:
     else if(p[i+1].at<=time)
       j++;
     else
       i=0;
```

```
}
avg_tat=total_tat/n;
avg_wt=total_wt/n;
printf("Avg TAT = %.2f\nAvg WT = %.2f",avg_tat,avg_wt);
return 0;
}
```

## **OUTPUT:**

```
Enter the total no. of processes: 6
Enter AT of P1: 0
Enter BT of P1: 5
Enter AT of P2: 1
Enter BT of P2: 6
Enter AT of P3: 2
Enter BT of P3: 3
Enter AT of P4: 3
Enter BT of P4: 1
Enter AT of P5: 4
Enter BT of P5: 5
Enter BT of P6: 6
Enter BT of P6: 4
Enter BT of P6: 4
Enter BT of P6: 4
```

Process	AT	BT	TAT	WT
3	2	3	9	6
4	3	1	9	8
6	6	4	14	10
1	0	5	21	16
2	1	6	22	16
5	4	5	20	15

Avg TAT = 15.83

Avg WT = 11.83