PROGRAM:

```
#include <stdio.h>
struct program
  int id,pr,bt,ct,tat,wt;
}p[100],temp;
int main()
  int i,j,n;
  float total_tat=0.0,total_wt=0.0,avg_tat,avg_wt;
  printf("Enter the total no. of processes: ");
  scanf("%d",&n);
  for(i=0;i<n;i++)
     printf("Enter priority of P%d: ",i+1);
     scanf("%d",&p[i].pr);
     printf("Enter BT of P%d : ",i+1);
     scanf("%d",&p[i].bt);
     p[i].id=i+1;
  for(i=0;i<n;i++)
     for(j=0;j< n-i-1;j++)
        if(p[j].pr>p[j+1].pr)
           temp=p[j+1];
           p[j+1]=p[j];
           p[j]=temp;
        }
     }
  p[0].ct=p[0].bt;
  p[0].tat=p[0].ct;
  p[0].wt=p[0].tat-p[0].bt;
  total_tat=total_tat+p[0].tat;
  total_wt=total_wt+p[0].wt;
  for(i=1;i<n;i++)
     p[i].ct=p[i-1].ct+p[i].bt;
     p[i].tat=p[i].ct;
     p[i].wt=p[i].tat-p[i].bt;
     total_tat=total_tat+p[i].tat;
     total_wt=total_wt+p[i].wt;
  avg_tat=total_tat/n;
  avg_wt=total_wt/n;
  printf("Process\tBT\tCT\tTAT\tWT\tPriority\n");
  for(i=0;i<n;i++)
     printf("\%d\t\%d\t\%d\t\%d\t\%d\t\%d\t\%d\n",p[i].id,p[i].bt,p[i].ct,p[i].tat,p[i].wt,p[i].pr);
```

```
}
printf("Avg TAT = %f\nAvg WT = %f",avg_tat,avg_wt);
return 0;
}
```

OUTPUT:

```
Enter the total no. of processes: 5
Enter BT of P1:6
Enter BT of P2:2
Enter BT of P3:8
Enter BT of P4:3
Enter BT of P5:4
               CT
                     TAT
                           WT
Process BT
2
         2
               2
                     2
                           0
               5
         3
4
                     5
                           2
5
         4
               9
                     9
                           5
1
         6
               15
                     15
                           9
3
         8
               23
                     23
                           15
Avg TAT = 10.800000
Avg WT = 6.200000
```