**Program code:**

**//**Program of Priority Scheduling….

#include<stdio.h>

int main()

{

int bt[20],at[20],p[20],wt[20],tat[20],pr[20],i,j,n,total=0,pos,temp,com\_time;

float avg\_wt,avg\_tat;

printf("Enter Total Number of Process:");

scanf("%d",&n);

printf("\nEnter Arrival time ,Burst Time,pr[]: \n");

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

{

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

printf("\nAT:");

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

printf("BT:");

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

printf("PR:");

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

//contains process number

}

wt[0]=0; //waiting time for first process is zero

//calculate waiting time

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

{

wt[i]=0;

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

wt[i]+=bt[j];

total+=wt[i];

}

avg\_wt=total/n; //average waiting time

total=0;

printf("\nProcess\t Priority\t Arrival Time\t Burst Time\t completion Time\t Waiting Time\t Turnaround Time");

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

{

tat[i]=bt[i]+wt[i]; //calculate turnaround time

total+=tat[i];

com\_time = tat[i] + at[i];

printf("\nP[%d]\t\t%d\t\t%d\t\t%d\t\t%d\t\t\t %d\t\t %d ",i+1,pr[i],at[i],bt[i],com\_time,wt[i],tat[i]);

}

avg\_tat=total/n; //average turnaround time

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

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

return 0;

}

**Output:**

