CPU SCHEDULING ALGORITHMS

3. Priority Non-Preemption

```
#include<stdio.h>
main()
int n;
printf("Enter the no. of processes: ");
scanf("%d",&n);
int id[n],bt[n],wt[n],tat[n],p[n],i,j,temp;
for(i=0;i<n;i++)
 id[i] = i+1;
 printf("\n\nProcess %d : \n",id[i]);
 printf("\nBurst time: ");
 scanf("%d",&bt[i]);
 printf("Priority: ");
 scanf("%d",&p[i]);
for(i=0;i<n;i++)
 for(j=i+1;j<n;j++)
  if(p[i]>p[j])
    temp=p[i];
    p[i]=p[j];
    p[j]=temp;
    temp=bt[i];
    bt[i]=bt[j];
    bt[j]=temp;
    temp=id[i];
    id[i]=id[j];
    id[j]=temp;
wt[i]=0;
for(i=0;i<n;i++)
 for(j=0;j< i;j++)
 Wt[i]=Wt[i]+bt[j];
 tat[i]=wt[i]+bt[i];
float avwt=0,avtat=0;
printf("\n\n\nProcess\tP\tBT\tWT\tTAT\n");
for(i=0;i<n;i++)
 printf("%d\t%d\t%d\t%d\t
%d\n",id[i],p[i],bt[i],wt[i],tat[i]);
 avwt=avwt+wt[i];
 avtat=avtat+tat[i];
```

```
avwt=avwt/n;
avtat=avtat/n;
printf("Average Waiting Time: %f\n",avwt);
printf("\nAverage Turnaround Time:
%f",avtat);
}
```