NAME: ARUN MC

ROLL NO: 230701036

Exp:6c

**PRIORITY SCHEDULING** 

Aim:

To implement priority scheduling technique

CODE:

```
#include<stdio.h>
int main(){
 printf("Enter the number of processes: ");
  scanf("%d",&n);
  int process[n], burst_time[n],priority[n], waiting_time[n], turn_around_time[n];
  float total_waiting_time=0,total_turn_around_time=0;
  printf("\nEnter the burst time with priority: \n");
  for(int i=0;i<n;i++){
   process[i]=i;
   printf("\nEnter burst_time[%d] with priority[%d]: \n",i+1,i+1);
scanf("%d %d",&burst_time[i],&priority[i]);
//sorting burst time
 for(int i=0;i<n;i++)
    for(int j=0;j<n-1;j++)
      if(priority[j]>priority[j+l])//swapping
         burst_time[j]=burst_time[j]-burst_time[j+1];
         process[j]=process[j]-process[j+1];
         priority[j]=priority[j]-priority[j+1];
         burst time[j+1]=burst time[j+1]+burst time[j];
         process[j+1]=process[j+1]+process[j];
         priority[j+1]=priority[j+1]+priority[j];
        burst_time[j]=burst_time[j+1]-burst_time[j];
         process[j]=process[j+1]-process[j];
         priority[j]=priority[j+1]-priority[j];
//finding waiting time
 waiting_time[0]=0;
for(int i=1;i<n;i++)</pre>
   waiting_time[i]=waiting_time[i-l]+burst_time[i-l];
```

## **OUTPUT:**

```
[cse36@localhost ~]$ cc 6c_priority.c
[cse36@localhost ~]$ ./a.out
Enter the number of processes: 4
Enter the burst time with priority:
Enter burst time[1] with priority[1]:
6
3
Enter burst_time[2] with priority[2]:
Enter burst time[3] with priority[3]:
14
Enter burst time[4] with priority[4]:
         burst_time waiting_time turn_around_time
process
           14
                                          14
                         14
                                          16
           6
                         16
                                          22
            6
                         22
  3
                                          28
Average waiting time : 13.00
Average turn around time : 20.00
```