Ex. No.: 6c)
Date: (5)

PRIORITY SCHEDULING

Aim:

To implement priority scheduling technique

Algorithm:

1. Get the number of processes from the user.

2. Read the process name, burst time and priority of process.

3. Sort based on burst time of all processes in ascending order based priority 4. Calculate the total waiting time and total turnaround time for each process 5. Display the process name & burst time for each process.

6. Display the total waiting time, average waiting time, turnaround time

Program Code:

Include Lstolio. h> int main 1) int n, 9, J; printf ("Enter the number of process:"); sianf ("%d", an); ant be[n], wt[n], tar[n], p[n], pri[n], tump; floor 'total_wt=0 - total_tor = 0; printf l'Enter the burst time and priority: \n'1). for lizo; ikn; i++) { Print ("P[%a] 4, 11; - print (" Burst Home: "); Scanf ("%d", & bt Ci]); Printf " Priority:" 1; P[1] = 1! Scanf (" % de L pri Ei);

```
for li=0; in-1; i+1) &
   for li=i+1 iJen; J+1) &
        if (pri ti) = pri to]) &
           temp = bt [i];
           bt [i] = bt[5];
           br []] = temp;
           tump = pri [i];
           pri [i) = pri []7;
            prily) = temp
            temp = p[i];
            p[i] = p[j];
           p [] = tump;
wt [0] >0;
for li=ij(xn;i+t) &
       wt [i] = wt [i-1] +bt [i-1];
  for (i=0; in; i++) {
      tat [i] = bt [i] + wt [i];
printf ("In Prouse it Bushtime It Waiting time it turnumous
time in");
 for (i=0; im; i+4) {
   print ( ">d/+ 1.d/+/+ %d 1+ 1+ %d", p[i],
              t [i], wt [i], tat [i]);
     total _wt+= wtti];
    total tak + = rat [i];
Print + (" In Awage working fine 1. If In" fold wit In);
Printf (" In Among turnerous time 1. If In" total - tar In):
```

Output

CiJ 9

P[4)

Enter the total no of prous : 4 burst then and priority Enter P(I) burst time ! 6 Priority: 2 P[2] Burst Hme . 2 Priority: 2 [679. Paust time : 14 Probaby : 1 PLUJ Burst time : 6 bupull : A Wasting time I wmorround time Burst time Proun 14 0 [E] 9 FATTER FIRMANT PURCEY OF MOREY OF P[2) Jose to 11 x 2 11 11 king 11 hours I strings

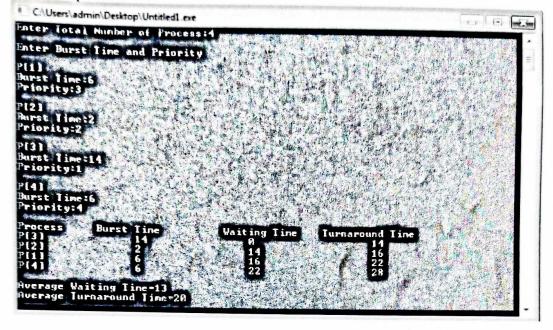
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1 1 1 1 2 2 7 ,

16 1 22

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Sample Output:



Result: Hence the above probably scheduling.

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