Ex. No.: 6c) Date: 27/02/25 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. 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. Display the total waiting time, average waiting time, turnaround time Program Code: # include < stdio. h> int main () int n; printf ("Enter number of parocess: "); scanf (" "d", &n); int buset [a][n] int priority [n]; for (int i = 0; i = n; i++) 1 printf ("Enter bout time of processes :/d:", i+1); burst LOJLI] = 1+1; scanf ("1.d", & burst [1][1]); printf ("Enter priority of process ".d:",i+1); scanf ("1.d", & priority [1]); for (int i=0; i<0-1; i++) for (intj=0,·j<n-i-1;j++) 4 if (priority []] > priority [j+1]) (int temp = buyst [][j]; burst EIJEj] = byrst [J] [j+1];

burst [1] [j+1] = temp;

temp = burst LOJEj];

burst [D][]] = burst [O][j+1];

000000000

•

.

.

-

)

-

-)

-

3

-

)

)

•

)

)

7

- 7

7

- 2 Separate 3 ર્વ

```
-
          buset LOJ [j+1] = temp;
-
          temp = priority [1];
          Priority [j] = priority [j+1];
          priority [j+1] = temp;
-
     3
0
   int turaro [n], wait[n], avgt = 0, avgw = 0, wait[0]=0;
-
    turaro[0] = burst [1][0];
-
    for (int i=1; i< n; i++)
.
       waiting [i] = turaro [i-1],
-
       turaro [i] = burst [I] [i] + turaro [i-1];
-
    }
for (Inti=0; i<n;i++)
0
0
       avgt 4 = turaro[i];
0
       avg W += wait [i];
-
2
    printf (" In Process It Burst Time ) t Priority It Turn Assound
Time It Waiting Time In ");
-
    for (int i = 0; i < n; i++)
)
       printf(" 1/dIt /dItIt /dItIt /dItIt 1/dItIt //dItIt //dIn")
-
    buset [O] [i], buset [O] [i], buset [O] [i], priority [i],
-
     turaro [1], wait [1]);
-
    printf ("In Average Two Acround Time: 1.2 flo", Cf Loat) avgt In);
)
     printf ("In Average Waiting Tume: 1/2flo "(float) and wIn);
)
     returno;
)
9
9
)
```

2

2

-

-)

- 2

-

Output: -

Enter no of processes: 3 Enter burst time of processes 1:10 Enter priority of process 1: 2 Enter burst Tume of process 2: 5 Enter priority of process 2:0 Enter burst Time of process 3: 8 Enter priority of process 3:

Process	Burgt Time 5	Poriority	Tuen Assend Turne	Watting Time
<u>ত্</u> ত	8	1	13	5

Average Turn around Time: 13.67 ms Average Waiting Time: 6.00 ms

Section 2

6

-

C

C

C

6

C

6

C

C

C

Cin

Contract

0

C

0

6

-

C

0

0

C

The same



```
(C) (C)
* C:\Users\admin\Desktop\Untitled1 exe
Enter Total Humber of Process:4
Enter Burst Time and Priority
P[1]
Burst Time:6
Priority:3
P[2]
Burst Time:2
Priority:2
P[3]
Burst lime:14
Priority:1
Burst Time:6
Priority:4
                                                 Waiting Time
0
14
16
22
                                                                          Turnaround Time
14
16
22
28
Average Waiting Tine-13
Average Turnaround Time-20
```

Result:

Hence the Poriority Scheduling is Implemented and Executed Successfully

43