Ex. No.: 6c)
Date: 05 02 25

PRIORITY SCHEDULING

Aim:

N

3

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 < Stdio. h>
 int main() f
  int n;
  Print f ("Enter no. of Processis");
  scanf (" %d", &n);
  int P[N], bt[N], wt[n], tat[N], pr[N], t,, t2, t3)
  float Sum 1=0, sum 2=0;
   Print + ("enter priors no. B+ of Priority In");
   for (int i=0; PZn; i++){
      Scanf ("" d ", d ", d", & P[i], & bt[i], & pr[i]);
   for (int i=0;i<n-1;i++){
        for (int 9=0; 3<n-1-1; 9++){
           if (pr[i] > pr[i+]){

ti = pr[i];
                pr[j] = pr[j+];
                 DY [j+1] = E1;
```

```
t2 = P[3];
                                                                                     P[J] = P[J+U;
                                                                                        P[j+1] = t2;
                                                                                              t3 = bt[3];
                                                                                                bt [i] = bt [i+];
                                                                                                        H[3+1] = t3;
                                          z z 3
                                                                                                                                                                                                                                                            •...
                                        Wt [0] = 0;
                                             For (int i=1 ; i < n; i++) {
                                                                                    WE [i] = WE [i-] + bt [i-];
3
                                                                                                    Sit = Wt[7];
                                                           3
                                                    for (int i=0 ; i<n; i++){
                                                                                    tat [i] = Wt [i] + bt [i];
                                                                                                        S_2 + = tat [i];
                                                     for (int ?=0; ?<n; ?++){
                                                                              Preintf(" y.d It y. d 
                                                                                                                                                                                          p[i], bt[i], pr[i], wt[i], tat[i]);
                                                                 Pruntf ("In avg wt = x.2f, " Si/n);
                                                                  Buntf ("In avg tat = 1.2f," $2 (n);
                                                     4
```

Output

enter n

4

enter process no, Bt. Priority

1 8 2

2 4 1

3 6 4

4 3 3

Riocus	BT	Pourity	WT	TAT
P2	4	1		4
Pi	8	2	4	12
P4	3	3	12	15
P3	6	4	15	21

avg Wt = 7.75 ms avg tat = 13.00 ms

Goatl grant

Sample Output:

M

10

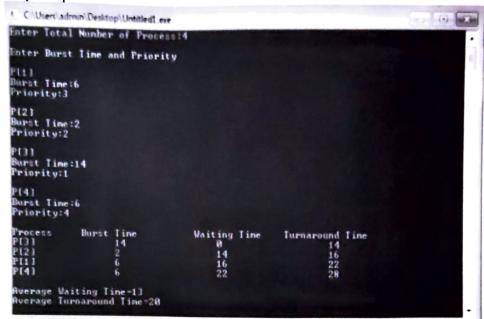
5552555 555255

3

3

3

-5



Result:

Idence the priority scheduling is implemented and executed success fully.