Ex. No.: 7 c Date: 2.4.24

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:

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Hindude (Stais W) int main () 2 not box so int n, i, j, pos, temp, august, augtat, total=0; printf (" Enter total no . of processes: "); scanf(" 1.d", 2m); int the (n), p(n), wit(n), tat(n), priority (n); printf("First Burst Time & Priority (n: "); Br li=0; i(n; i++) { pmutf(" mp 1.d (n ", i+1); printf("Bust Time: "); sampli. 1 9 ", APF[1]); printf (" Priority:"); Scant["I.d", & priority(i]); P[i] = 1+1;

sorting bt, prouse priority, & process no. in asc using selection

```
br(1=0; i(N; 1++){
            POS = 1;
             Br (j=i+1; j<n;j++) &
                     if (priority[i] < priority(pos])
                       i [= 209
                 ; [i] pringing = quest
                c. [sad] his and : [ 1) husual
                 priority(pas] = temp;
                 temp = bt Ci];
                  bt(i) = bt[pos];
                   bt[pos] = temp;
                   temp=pci];
                   PCi] = P[pos];
                   P (pos) = temp;
     5
      W+(0]=0;
// calculate WT
         for ci=1; icn; i++) &
                    wrci)=0i
                     POYCH=+(i)++) & W+Ci]+=b+Cj];}
                                        & total +=w+Ci3
                     total += wt (i);
 angut = total/n;
  total = 0;
  Printf(" in Process LEVE BT LEVE WIT LEVE TATI);
  for lied; icn; irthe
           tatci)= btCi]+ wtCi];
           total + = tat(i);
           Printf ("in PRO LELE I'd LELE 1.d JE H Kd", PCI), bt[i], wtCi], tatci]);
 augtax = total/n;
 printf(" in Ang THE WT : 1 d ", ang wt);
 printf("In Ang TAT: 1.d", dugtat);
  rokun D;
```

3

5

3

J

3

2

2

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3

5

5

3

1

1

Output:

Enter Total no. of processes: 3 Enter Burst Time & priority

PI Bust Time: 3 Priority: 6 Priority: 10 Priority: 1

Priority: 2

PRO CESS	BT	WT	TAT
P2	10	0	l0
P3	2	10	12
91	3	12	15

Average WT: 7 ms

RESULT:

R

5

5555555555

The program has been compiled and executed sicessing.