Ex. No.: 6c)
Date: 27 /2/ 25

PRIORITY SCHEDULING

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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:

hu clude < stdia h? #include < stallib. h> int main () int no of mounts: \n');
rianfi'z d", in);
rianfi'z d", in); int bting, ping, cting, at =0, tating, whing, atet =0, aw ==0; funtfl" Enter the burst fime: \n"; for 1 int 1 =0 ; ixn: 1++) sianf(" r.d", stotC(3); flintfe" Enter priority of processes: \n"); for (int 120; ixn; i+1) mange"/d", 2pci3); ; [mid spch]; for (int 1 =0; in; it) spci3 = pci3; for (int 120) ixn-1; 1+4) for lint j=0; jen-1-i; j ++) 2 Ylapli+1JeapljJ

```
int temp: spfity;
         如门村了与明门
          spcij = temp;
 int c=0;
forlint 120; icn; itt)
   for ( int 9=0; jen; 9+4)
    { & (spli] == pfj7)
        ct l'j] = (+ btcj3;
         C= ct(j3;
         tat y ] = uci ] - at;
         wtlj3= tat (j3-btlj];
  frincf("in completion Time \n");
 forlint ( so; i(n; i++)
      printfe":din", ct(i);
 funtfe" (n Turn around time: n'1);
 for ( int [ 20; [(n; [++)
     printfi" r.din"; tat (ID);
 printfe" in west time in ");
 for ( int i =0; i < n; i++)
    printf("z.din", wtli3);
for line & to; ixn; i+++)
  atat : atat + tat (13;
   awt: awf+wtli];
perntfe" in Average Turn around time: 1.24 in
         Average Wait time: 1. 2f m", (float) atat /n,
             (float) awt/n);
```

output: Enter no of prounce: 4 Exter the burst time: 135 8 4 Enter priority of process: 2 4 completion time: 22 30 4 Turn around time. 30 weat time: 9 4 22 Average Turn around time: 16.25ms Avriage wait time: 8.15 ms.

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Proces	BT (ms)	Priority	CT (ms)	TAT (mi)	nit (ms)
P1	13	3	22	22	9
P2	5	2	9.	9	4
P3	8	4	30	30	22
P4	4		4	4	o Majoresi

Average turn around time: 16.25 ms Average went time: 8.75 ms

	P4	P2	Pi	P ₃	
0	4	9		22	3

Sample Output:

CAUserstadmin Desktop UnitiedLase
Enter Total Number of Process:4
Enter Burst Time and Priority

P[1]
Burst Time:6
Priority:3

P[2]
Burst Time:2
Priority:1

P[4]
Burst Time:6
Priority:4

Process Burst Time Waiting Time Turnaround Time
P[3]
P[2]
P[3]
P[4]
Process Burst Time Waiting Time Turnaround Time
P[3]
P[4]
Process Burst Time Waiting Time Turnaround Time
P[4]
P[4]
P[4]
P[5]
P[6]
P[6]
P[6]
P[7]
P[8]

Average Waiting Time-13
Average Turnaround Time-20

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Result: The priority achiduling technique is insplumented using c.