Ex. No.: 6c)
Date: 28/2/2025

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:

num = int (input ("Enter number of foroceses:"))

foro = array . array (i', rrange (1, num+1))

bt = array . array ('i'), map (int , input ("Enter brost time:"). Split ()))

Criorities: "). split ()()

n = sorted (rrange (num), key = lambola i = prici)

bt = array . array ('i'), [bt (i) for i in n])

pre = array . array ('i'), [prici] for i inn])

pri = array . array ('i', [prici] for i inn])

fort = array . array ('i', [o] * num)

bot = array . array ('i', [o] * num)

Wt = array. array(i1, Co] * mm) t = array. array(1i', [a] * mun tat = may conay ('i', [o] * mun for i in erange (1, num): ol=Ci]=ct[i-]+bt[i] for i in srange (mum): tot [i] = ct Ci] - ct [i] for i in stange (num): Wt=[i]=tat[i]-bt[i] ang-Wt = Sum (Wt)/mun ong - tat = Sum (tat/num point ('\n process | t Burst time | t porsonity | t completion time It Waiting time It two around time" for i in range (num): Built & "Epar [i] 31+ Ebt [i] 31+1+ [poi [i] 31+1+ 0 [at [i] 3 | t | t [wt [i] 3 | t | t [tat [i] 3")) Bruit (f" \n avorge waiting time: [ang-Wt: 253") point (5" Avonage two macound time: [ang_tat = 253") Greeny twomeround Time = 1 The grant short for the

authut Enter number of proves : 4 Enter lund time of process: 8 4 63 Enter poriorities: 2143 Process Aminal Burst time Brivarty Confection Waiting Transcourd (ms) (ms) (ms) (ms) (ms) Average maiting time = 7.75 mg Average twomoround time = 13.00ms The grant chart for this schoolule is

Sample Output:

I Collegistation District District of Process:4

Enter Puts Time and Priority

P(1)

Burst Time:6

Priority:3

P(2)

Burst Time:2

Priority:2

P(3)

Burst Time:14

Priority:1

P(4)

Burst Time:6

Priority:1

P(4)

Burst Time:6

Priority:1

P(4)

Burst Time:6

Priority:1

P(5)

Burst Time:6

Priority:1

P(6)

Burst Time:6

Priority:1

Authority:1

Process

Burst Time

Authority:1

Burst Time

Authority:1

Scheduling have low executed
Successfully

8th

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