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

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:

from operator import demogether n = int(input ('Enter the number of process:")) list 1= [7 tat= [7 for im lange (0,n); P-name = input (" Enter the process name:") bt = int (input ("Enter the Burst Time:")) prios: int comput ("Enter priordy: ")) list 1. append ([p-name, bt, prior])

list 1 = sorted (list 1, key = itemgetter (2)) tal append (list 1 [0][1]) for i in range (1,n): t = tat[i-1]+list | [i][i]

tat. append (t) WIFT

for i in large (oin): t= tat [i] - list [[i] [i] wt.append(t)

Paint ("Process | + 1 + Burst Time It Priority It Two Around Time It waiting Time ")

for i in range (0,n). perint ("In"; list 1 [i] [o] "It It"; list 1[i] [o], "ItIt", List 1 [i][i], "It It It; tat [i]," ItItIt; WES; J)

Sum = 0 sum 1 - 0 for i in range (o, n): sum + = tat[i] sum 1+=wt[i]

print (" Average Twin Around Time: ", sum/n print (" Average waiting Time: "; sum 1/n)

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Enter the number of process 5 Enter the Process name P) Enter the Burst turne 10 Enter powerty: 3 Enter the process name : P2 Enter the luvist time: Enter priorty: 1 (The lips and the lips Enter the process name p3 Enter the lewest time 2 Enter priority: 4 Enter the process name: P4 Enter the lurist time ! Enter the privily: 5 Enter the process name: P5 Enter the lurst time 5 Enter priority: 2 Process Burst time priority Turn Around warling 0 P2 5 2 PI 10 P3 2 PH Average turn around time: 1,2.0 Awage watting time: 8.2

Sample Output: 931 kerst Time:14 Piority:1

Process scheduling has been done using
Priority algorithm and the result has
been verified.

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