Ex. No.: 6c) Date: 5 | 03 | 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:

#include < stdio.h>
int main(){

unt n;

point ("Enter no. of process \n");

scary ("%d", &n);

int P[n], bt[n], wt[n], tot[n], pr[n], t1, t2, t3;

float sum = 0, &um = 0;

print ("Enter process NO, BT & printity \n");

for (int i=0; i<n; i++){

scary ("%d %d %d", & P[i], & bt[i], & pr[i])

}

For (int i = 0; i < n - 1; i + + 1) {

for (int j = 0; i < n - 1 - 1) i + + 1}

if (PM[j] > PM[j+1]){ $t_1 = PM[j]$; $t_1 = PM[j] \stackrel{4_1}{=} PM[j+1]$; $PM[j] \stackrel{4_1}{=} PM[j+1]$; $PM[j] \stackrel{4_1}{=} PM[j+1]$;

```
t2 = P[i];
                         money pout theirs
       PEJJ=PEj+TJ;
       P[j+1] =62;
       t3 = b t[j];
       bt[j]=bt[j+];
       bt[j+1]=+3;
wt[0]=0:
for( cont i=1; i< n; i++){
                           101894
    wt[i] = wt[i-i] + bt[i-i];
  S1+= Wt[i];
for (od i=0;izn; i++){
   tatli]= Wt[i]+bt[i];
     S2+= tat[i];
 4
for (int i=0; 1<n; i++){
     peint ("1 od It %d It %d It %d In")
             P[i], bt[i], py[i], wt[i], tat[i]);
 print ("In Avg writing Time = %.26", si/n);
 pound ("In Aug tAT = %.24", &2 /n);
```

3

OUTPUT :

ENGEL NO. of process

ENDER PERSONS NO. BT, privarity

1 8 2 2 4 1 3 6 4 4 3 3

Phocess	Bunktime	Psubsity	WT	TAT
P2	4	1 . 6	0	4
PI	8	2	14	1.12
P4	3	Cillia Cilla	12764	15
P3	6	4	15	21

20+ 11- 11 m

100 plat - 1734

Avg waiting Time = 7.75 mg.:

Avg TAT = 13.00 ms.

: (m cp " fe 2 - The (m 1/") from 19

Sample Output: - (-) -X3-C\Users\admin\Desktop\UntitledLese Enter Total Number of Processia Enter Burst Time and Priority P(1) Durst Time:6 Priority:3 Pt21 Murst Time:2 Priority:2 P[3] Burst Time:14 Priority:1 P[4] Durst Time:6 Priority:4 Waiting Time 0 14 16 22 Turnaround Tine Burst Tine 14 2 6 6 Average Waiting Tine-13 Average Turnaround Time-20

Result:

Thus the Privarity Algorithm is executed.

& JL 43