Ex. No.: 6c)

Date: 05/03/25

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 mainly &

int n;

print f ("Enter no of process n");

Scan f ("70d", 2n);

Int P[n], bt[n], wt[n], tat[n], pr[n], bi, tz, t3;

float sum =0, sum ==0;

print f ("Enter process no, BT & priori Lylm");

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

Scan f ("% od % od % od", & p[i], & bt[i], & pr[i]);

```
tz= p[j];
             PSJ=PS+U;
             P[j+1]=t2;
             +3= bt[j];
              btsj]=btsj+i];
             bl-[j+1]=t3;
 wt lo] = 0;
 for (int 9=1; i<n; i++) 2
     wt [i] = wt[1-1] + bt[i-1];
    SI+ = wt[i];
 for (int 1=0; i < n; 1+t) }
    tat[i] = wt[i]+bt[i];
    Szr= tatsij;
for (int i =0; icn; it+) 2
    printf ("%dit .7dit %dit %dit %dit %dit,",
             (CEI) + (11 tw (EI) , EI) + (EI) q
printf("In Arg Waiting time = 70.2f", 51/n);
print+ ("In Avg TAT = 70127", $32/n);
```

DUTPUT:

Enter No of process

4

Enter process no, Br, priority

1 8 2

2 4 1

3 6 4

4 3 3

Procus	Burstime	Priority	WT	TAT
P2	4		0	
Pi	8	2	4	. 11
Рн	3	3	12	
P ₃	Ь	4	21	

Avg TAT = 13.00 ms.

Sample Output:

C(Userstadmin)Desktop)UnbitedLexe

Enter Total Number of Process:4

Enter Burst 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:5

Priority:4

Valting Time 0 14 16 22

Turnaround Tine

Result:

Durst Tine 14 2 6 6

Average Vaiting Tine-13 Average Turnaround Tine-28

Thus the priority Algorithm is executed.