Ex. No.: 6c) Date: 5/3/25

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 <atolio.h> int main () { int no printf (Enter no . of process In"); scanf (" 1.d", &n); int P(n), bt(n), wt(n), tat(n), pr(n), t1, t2, t3; post sum 1=0, sum 2=0 privil/ ("Enter process no, BT & privily In"); for (int 1:0; i=n; i+1) & Branf (" 1.d 1.d 1.d", & P[1], & bt [i], & px(1)); for (int 1:0; 1 < n-1; 1++) & for (int j=0; j=n-1-1; j+4) & 4 (PY[] > PY[j+i]) f ti= Pra: PY[] = PY[j+]; PY[1+1] = ti;

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to = P(3);
                P[i] = P[i+1];
               Pliti] = to:
                t 3 = b+[i]:
               bt[i] = bt[i+i]
                bt[j+1] = t3;
            z
      z
 wt[0] =0;
  for (int 1:1; 1<11; 1+4) {
        wt [i] = wt[i-i] + bt[i-i];
        51+ = wt[i];
٤.
 for ( int i = 0; 12n; 1++) &
     tat[i] = wt[i] + bt[i];
     52 + = tat(i];
for (int 1=0; 12n; 1+1) {
     print ("YdIt YdIt YdIt YdIt YdItIn",
                   P[i], bt[i], pr[i], wt[i], tat[i]);
Printf ("In Avg Waiting line = 7-29", 5,/n);
Print ("In Avg TAT = 7. 2 f", 52/n);
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OUTPUT:	C t 11- a morem	Proces	Burst time	Priority	WT	TAT
	Enter No of process	P ₂	4	1	D	
	Enter process no, BT, privity	Φ,	8	2	4	
	8 2	P4	3	3	12	
	2 4 1	Pa	6	4	21	
	3 6 7	13	14			

Aug waiting Time = 7.75 ms Aug TAT = 13.00 ms

Result:

Thus the priority Algorithm is executed