Ex. No.: 6c)

To implement priority scheduling technique

1. Get the number of processes from the user.

2. Read the process name, burst time and priority of process.

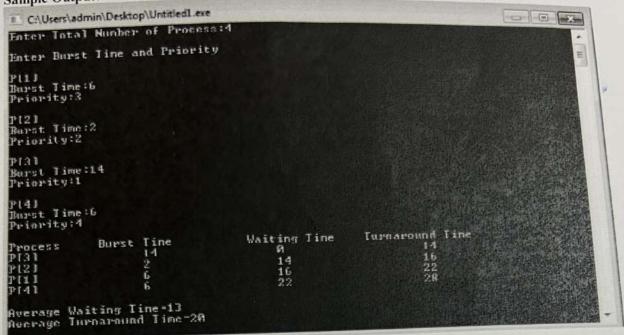
3. Sort based on burst time of all processes in ascending order based priority 4. Calculate the total waiting time and total turnaround time for each process 5. Display the process name & burst time for each process.

6. Display the total waiting time, average waiting time, turnaround time

Program Code: Hindude 2stdio.h> Hindude 2std lib h) int main () { int n; print ["Enter no of process: In Scanf (-1,d", fn);
int bt[n3, h[n], ct[n), at=0, tat [n], wt[n], at at = 0, and = 0 print ("Enter the burst time"); for link i =0; izn; it+)
scan [("/.d"/Pbt[i]); ("Enter the priority of privaces: \n") on [ind (=0; i'm; i't+) scan []. d" + feli3);

for (int i= o; ikn; itt). sh li3 = h li3; for (int i=o; izn-1; itt) { for lint j=0; j'en-1-2; j'tt) { if (sh 2 j+13 c sh 2j3) (int temp = spljti3; shejiti =shejij; spli3 = temp; 333 for (ind i=o; izn; i+) (for (intj=0;j=n;j++) { if (sh [i] == [i]) { ct[j3=c+bt[j3) c=c+Lj3 taf[j3=ct[j3-at] wt[j] =tat[j]-bt[j];]]] print [In Lomple hion Time \n"); for | ind i=0; izn; itt) printf ["/.d/n"; cfli3); found [" In Twen around time (n')) for (int 120; icn jitt) printf [].d [r/42tat [i]); pount [In Wait time (n');

for (int i=o; icn; itt) prunt [1"/-d/n", wt [i3; for (int i=ojicnjitt) (atat = atat + tat [i]; aut = aut + w+ [i]; printf(" | n Average Turnarount Time = /-2 f | n Average Wait time: /. 2/1/2/1 wat) atal/n/ (float) aut/n) Output Enter the no of priores: 4
Enter the burstime: 13
5 Ender the priority of process: Completion timo: 22 Two around hime: 22 Sample Output:



Wait time:

Average Turnaround Time: 16-25 ms Average would time; 8.75 ms

The priority scholenling technique is implement using a



Broress	BT(ms)	Rivority	CT(ms)	TAT(ms)	NIT
ρ.	13	3	22	22	9
P ₂	5 3 0	+ 2	199	9	4
P3	8	ICE+ RS	30	30	22
P4	4	1 1	4	m346m3	0
14		N.	1 . 1 . 7 . 3		

Average Turnaround Time: 16-25 ms
Average Wait time: 8-25 ms