Ex. No.: 6a)
Date: 20|2|25

FIRST COME FIRST SERVE

Aim:

To implement First-come First-serve (FCFS) scheduling technique

Algorithm:

- 1. Get the number of processes from the user.
- 2. Read the process name and burst time.
- 3. Calculate the total process time.
- 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 < &tdio.h >

int main () {

int n, i;

printly ("Enter the number of Processes: ");

scanf ("% od", &n);

int bt[n], ct[n], tat[n], wt[n], at[n];

printly ("Enter bust time for each process: \n");

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

 scanf ("% od", & bt[i]);

}

ct[o] = bt[o];

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

 ct[i] = ct[i-1] + bt[i];

```
for (1=0; 1<n; 1+1) {
      at[i]=0;
       tat[i] = ct[i] -at[i];
  for (i=0; i<n; i++)}
         Wt[i] = tat[i] - bt[i];
   float aug_wt=0, aug_tat=0;
   for (i=0; i < n; i++) {
        avg-wt = avg-wt + wt[i]:
        aug_tat = aug_tat + tat[i];
    aug-wt = aug-wt/n;
     avg-tat = avg-tat/n;
     Print ("In Process It Burst Time
             It Waiting Time It Turn Assound
                                   Time \n')-
    for (i=0; i<n; i++) &
        perity ('% d 1 t % d H 1 t 1 t % d 1 t % d
                     In", i, bt[i], wt[i], tat
Print ("Average waiting Time: %.1f\n"
                                   aug-wt);
print 1" Average 36 Turn Around Time: %. 1/11/
                               avg-tat);
```

Peuceus	Burst Time Waiting Time Turn	shound Time
D	6	6
1	2 1:31-0 . [: 160]	8
2	8 3 (11 11 11 18 1 19 1 19 1	16
3	[1]44-31701-[1]416	19
4	tot guil o tu ou 19 tout	23

Average Waiting Time: 9.8 Average Turn Around Time: 14.4

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ang test).

Sample Output:

Enter the number of process:

Enter the burst time of the processes:

2433

Process	Burst Time	Waiting Time	Turn Around Time
0	24	0	24
1	3	24	27
2	3	27	30

Average waiting time is: 17.0 Average Turn around Time is: 19.0

: TUPTUO

From the number of Process:

the burt time of the processess: Ensel

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Result:

Hence the program is implemented First-Come First-Serve scheduling.

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