Ex. No.: 6a)
Date: 20.2.25

## FIRST COME FIRST SERVE

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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 < stdio.h>
int main () {

int n;

Print f ("Number of processes: ");

Scanf (" y.d", &n);

int bt [n];

Print f ("burst time: ");

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

Scanf (" y.d", & bt [i]);

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int ct [n];

Print f (" cempletion time: \n");

```
int (=0)
 for (int i=0; 1<n; 1++){
     (+=bt[i])
    ct[i]=c;
   Printf (" y.d In", ct [i]);
 int tt[n], wt[n];
 Printf (" turn around time: \n");
 for (int i=0; r<n; 1++) {
  tt[i] = ct[i];
 print f (4 %.d \n1), tt[i]));
 printf ("waiting time: \n");
 for (int i=0; i<n;i+t) {.
   wt [i] = tt[i] -bt[i]
   Print f (" 1.d \n", wt [i]);
Int avg-wt=0, avg-tt=0°,
for (int i=0; i<n; i++) {
  awg-wt+= wt[i];
  avg-tt += tt[i];
avg_wt = avg_wt /n;
avg-tt= avg-tt/nj
printf ("Average weiting time: ".d In", avg_wt")
printf ("Average turn 36 around time: 1.d in", avg_tt);
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Process	Burst time	Turn Around	Waiting time
Pi	Ь	6	0
P2	2	8	6
P <sub>3</sub>	8	16	8
P4	3	19	16
P <sub>5</sub>	4	23	19.
Arg Waiting	time:	9.8	Ciliba Cilar
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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

Number of processes: 5 burst time: 6 2 8

Thus the First Come First serve algorithm has been executed.

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