Ex. No.: 6a) Date: 21 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:

# undude (stdioh) int mains unt n/i; float total=wt=0/total-tat=0; pointf ("Enter the number of perocesses"); Sanf ("1.d" & n); int bt [n], wt[n], tat[n]; char process [n][10]; print (" Friter the process names"); for (i=0; i<n; i++) { scanf ("1/s", process (i); } pount f (" Enter the burst tome."). for (i=0; i<n; i++) { scanf(11/4", 8 b(i]).

```
wtroj=0
los(i=1) i < n; i++) }
  wt[i] = wt [i-i] + bt[i-i];
  total-wt += wt [i]:
for ( i=0; izn; i++){
    tat [i] = wt [i] +bt[i];
    total_tat += tat[i];
 yount f ("In process ) + Burst time It
           waiting time It Two around
           Time In"?;
       forlinti=o;ixn;i++)$
         printf ("1.8 | t'/d| t117.d | t1t10")
               process [i], bt[i], wt[i])
            tat [i]);
  printf ("In Aug wailing Time. 7-2f")
                             total-wtin").
   printf (" In Avg Twin around Time
                        %/02 f", total-tat/n);
  returno,
                   36
```

Sample Output:

Enter the number of process:

Enter the burst time of the processes:

2433

Process	Burst Time	Waiting Time	T
0	24		Turn Around Time
1		0	24
	3	24	27
2	3	27	21
		-1	30

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

Process.	Burst Time wailing Time Turne Turne		
0		0	25
1	25	25	33
2	Ц	29	

Ausage warling turne: 18
Ausage turnaround turne: 27

Result: The program for coa scheduling, using first come first serve has been executed successfully and output has been verified

37