Ex. No.: 6a) Date: 19/2/25

## FIRST COME FIRST SERVE

Aim:

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

## Algorithm:

- 1. Get the number of processes from the user.
- 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 avg (int a [], int n)
  int s = 0;
  for (int i = 0; i < n; i++)
      5+= a[i];
  yetwyn o/n;
int main ()
{ int n; scanf ("".d", &n);
  int bt[n], at[n], ct[n], tat[n], wt[n], sum - 0;
 for (int i = 0; i < n; i++)
    scanf (" ".d", & bt [1]);
 for (int i=0;1<n;i++)
    Scanf ("1.d", & at [1]);
ct [0] = at [0] + bt [0];
for (int i = 1; i < n; i ++)
    ct[i] = ct[i- 1] + bt[i];
for (int i= 0; i < n; (++) {
   tat [i] = ct [i] + at [i];
   Wt [i] = tat[i] - bt[i];
z
```

```
Printf ("In Process: bursttime: Avaival Time: Completion Time:
             Turn Around Time: Wait Time 10");
     printf ("p"/.-9d"/.-15d"/. -15d 1/-15d"/.-15d\n",
  for Cinti=o; i<n; i++)
               i+1, bt [i], at [i], ct [i], tat [i], wt[i]);
   printf (" Avg Turn Around Time: "d In Average Wait Time.
              ·/.d/n "avg (tat, n), avg (wt, n));
   3
  Output: -
0
   No of Process:
3
    Bushat Time of Process:
    534
    Arrival Time of Process:
   Process: Burest Time: Arrival Time: Completion Time: Two Around: Wait Time
0
0
                  5
                                                    10
     Pi
                                         10
                                                             6
9
                                                    10
                             0
                  3
                                         14
     P2
                             4
9
                 4
     93
9
    Avg Twin Around Time: 8
9
    Avg Wait Time: 4
9
    No of Process:
-
)
    Burst Time of Process:
-
          3
     24
    Arrival Time of Process:
9
     Process: Burst Time: Arrival Time: Completion Time: Twn Around Time: Want Time
9
                                       24
24
                                                           24
      PI
                                                27
                                       27
                 ろ
                            0
                                                           27
)
      P2
                                                30
                                       30
                            0
                 3
- )
                                36
     Avg Turn Avound Time: 27
-
          Wait Time: 17
     Avg
- 2
-
```

## Sample Output:

Enter the number of process:

Enter the burst time of the processes:

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

Result:

Hence The FCFS scheduling is Implemented and

Executed

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