Ex. No.: 6a)
Date: 22/2/25

FIRST COME FIRST SERVE

Aim:

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

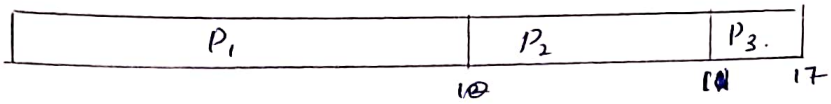
Algorithm:

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:

```
int main ()
    int n;
    printf ("Enter no.of proces");
    Scanf ("%d", &n);
    int burst[n];
    printf ("Enter the ... burst-time");
    for (int i=0 ; i<n; i++)
            Scanf ("%d", & burst[i]);
    psintf (" proces  BT  WT  TAT \n");
    int wt=0; tat = burst[0];
    float  avg_ wt =0, avg_tat=0;
    for (int i=0 ; i<n ; i++)
            print("%d  %d  %d \n", i burst[i],
                                    wt, tat);
            avg_wt = wt;
            avg_tat =tat;
            wt = wt + burst[i];
            tat = burst [i+1] +wt;
}
avg_wt = avg_wt \n;
avg_tat = avg_tat \n;
printf ("Average WT %  lf \n", avg_wt)
printf (" Average TAT %  lf \n ", avg_tat)
```

Gantt chart



tabulation.

Process	Bt (ms)	Ct (ms)	At (ms)	TAT = CT - AT (ms)	Wt = TAT - BT (ms)
1	15	10	0	15	0
2	9	16	0	16	15
3.	8	24	0	16	8.

Sample Output:

Enter the number of process:
3
Enter the burst time of the processes:
24 3 3

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

Enter the number of process : 3.

Enter the burst time : 5 3 8.

Process	BT	WT	TAT
0	5	0	5.
1	3	5	8.
2	8	8	16.

Average WT : 4.3.

Average TAT : 9.7.

Result:

Program to implement FCFS scheduling technique was executed successfully.