Ex. No.: 6a) Date: 26-02-25

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 (stdio.h) int main () print ("Enter the no of process"); scanf ("1.d", &n); int burst [n];
printf ("Enter the built time of process"); for Cent i =0; i <n; i++)
scanf ("Y.d", & burst [i]); printf ("Process burst time waiting time turn time \n");

```
int wt=0, tat = burst[0]
float arg-wt =0, arg-tat=0;
for (int i =0; i <n; i++)
                              7.d"n));
                         7. d
 { printf (" Y.d Y.d
    burst [i], wt, +at);
    avg-wt += wt;
   avg_tat += tat;
     wot = wt + burst [i];
     tat = burst [i+i] + wt;
  avg-wt = avg-wt/n;
 ung_tat = avg_tat /n;
 prentf ("Average waiting time is "... If \n", aug-wt);
 prents ("Average turn around time is "... If",
                                    avg_tat);
```

output:

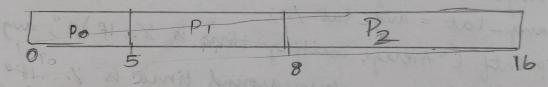
Enter no of process: 3

Enter the burst time of the process: 5 3 8

process	Burst time	Waiting	Turn around time
n	5	0	5
O	2	5	8
1	3	ided of a	16
2	8	8	

Average waiting time is 4.3 Average turn around time is 9.7

Gantt chart:



Process	Arrival time	Burst time (ms)	completion time (ms)	Waiting time TAT-BT(MS)	Turn, around time CF - AT (ms)
PI	0	5	5	0	5
b	0	3	8	5	8
P2	0	8	16	8	ا ا
P3	U				

Average variting time =
$$\frac{0+5+8}{3} = 4.3$$

Average Turn Around time = $\frac{5+8+16}{3} = 9.7$

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

Result:

The program for CPU scheduling, using first some first serve has been executed successfully and output has been verified.