Ex. No.: 6a)
Date:

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:

```
bt=[]
print("Enter the number of process: ")
n=int(input())
print("Enter the burst time of the processes: \n")
bt=list(map(int, input().split()))
wt=[]
avgwt=0
tat=[]
avgtat=0
wt.insert(0,0)
tat.insert(0,bt[0])
for i in range(1,len(bt)):
        wt.insert(i,wt[i-1]+bt[i-1])
        tat.insert(i,wt[i]+bt[i])
        avgwt+=wt[i]
        avgtat+=tat[i]
avgwt=float(avgwt)/n
avgtat=float(avgtat)/n
print("\n")
print("Process\t Burst Time\t Waiting Time\t Turnaround
Time")
for i in range(0,n):
        print(str(i)+"\t\t"+str(bt[i])+"\t\t"+str(wt[i])+"\t
 \t"+str(tat[i]))
        print("\n")
print("Average Waiting time is: "+str(avgwt))
print("Average Turn Around Time is: "+str(avgtat))
```

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