Ex. No.: 6a)
Date: \ 9 \ | 0 2 | 2 5

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:

n = int cinput ("Enter the number of processes: "))
processes = [7

for is in range (0, n):

x = int (input ("Enter the processes."))processes append (x)

bt = [] for i in range (0,n):

x = int (input (" Enter the burst time: ")) bt append(x)

at = 0

ct = []

for i in range (0,n):

i (i = =0):

ct append (bt[i])

else:

ct append c bt (i]+ ct[i-1]

print ("completion time: 35, ct)

tat = ct prent (" tuen around time.", tat) uet = () for i in range (0, n): ut append c tat (i] -bt (i)) (" waitin q time:", wt) Sumt = 0 for i in range (0,n): sumt = sumt + tatci] aut = (sumt)/n Sumw=0 for i in range wo, n): sumw = sumw + wt li] avw = (sumw)/n Print ("arriage TAT.", aut) Print (" amage wt:", avw)

3

yanti chart:

,	4	3	
1		9	16

Tabulation:

Process	BT cms)	CT (ms)	AT (ms)	TAT= CT-AT (ms)	WT=TAT-BT (ms)
	5	5	0	5	0
2	3	8	0	B	5
3	8	16	O	16	8

9

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

Vi fcfs.py

Python3 fcfs. py

Enter the number of processes: 3

Enter the processe,

Enter the ocesses)

Enter the processes: 3 Enter the burst time: 5

Enter the burst time: 3 Enter the burst time: 8

completion time [5,8,16]

turn around time: [5,8,16]

waiting time: [0,5,8]

annage TAT: 9.6666

anuage WT: 4.3333

Result:

Thus the FCFS (first-come-Flist serve) scheduling technique was implemented using python, executed successfully gave the expected output