Ex. No.: 7 a
Date: 26.3.24

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:

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Fols. Py

Print ("FIRST COME FIRST SERNE SUMEDULING")

N= int (input ("Enter no. of processer: "))

d = dict ()

for i in range (n):

a= int (input ("Enter AT for P'+str(i+1)+":")

b= int (input ("Enter BT for P"+str(i+1)+":")

1= C]

1. append (a)
1. append (b)
4 (rent) = 1

d = sorted(d. (tems(), key= lambda item: item(17[0])

[J= FJ

```
for i in range (lun(d)):
    # first process
     if (i==0):
          CT. append (dCi3C1J[1])
     # get previous CT + New BT
      else:
            ct. append(ct[i-1]+d[i]Ci][i])
 [] = TAT
 for i'm range (lund):
       TAT. append (CT [i] - d[i][i][o])
 O= TAT = D
                                # to find aug. TAT
   BY i in TAT:
         aug_TAT += i8
n = \frac{1}{7} TaT_p va
 [] = TW PER
 for i in rangel len(d)):
        WT. append (TAT Ci) - d(i)(i)(i)
 OUG-WT-O
    for i in WI!
        ang-wit +=i
N = /TW=pus
 print (" Process AT BT CT TAT WT")
 for i in range (n):
       Print (dci2co]," ", dci2ci2co]," ", dci3ci3ci]," ", cTci3," ", TATCI7,"
                                                                w(i])
print(" average TAT: ", aug_TAT*, " ms. ")
print (" Average 107: ", ang 1673, " ms.")
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FIRST COME FIRST SERVE SCHEDULING Output:

> Enter no. of processes: 5 Enter assiss AT of PI: 0 BT of PI: 10 Enter P2: 1 AT OF Conta P2: 1 BT of Enter Enter AT of P3: 2 ENTER BT OF P3: 2 Center AT of Py: 1
> Center BT of PA: 1 anter AT of PS: 2 unter BT of PS: 5

P	AT	BT	CT	TAT	W I
Pı	0	10	10	10	9
P ₂	1	1		11	10
P3	2	2	/12	12	10
Py	V	6/	14	17	12
P5	2	7	19	1	

Average TAT: 12.0 Mg.

Average WT:

RESULT:

executed and output has been verified The program was successfully.

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