**Institute of Engineering & Management**

**Department of Computer Science & Engineering**

**Operating System Lab for 3rd year 6th semester 2019**

**Code: CS 693**

**Date:** 10/04/19

**WEEK-8**

**Assignment-1**

**Problem Statement:** Implement LRTF Algorithm.

**Source Code:**

n = int(input("No. of Processes: "))

at = input("Enter arrival times: ")

at = [int(x) for x in at.split()]

bt = input("Enter burst times: ")

bt = [int(x) for x in bt.split()]

ct = [0]\*n

def find\_max(time):

max\_pid = -1

max\_bt = -1

for i in range(n):

if bt[i] > max\_bt and at[i] <= time:

max\_pid = i

max\_bt = bt[i]

return max\_pid

loop = sum(at) + sum(bt) + 1

for i in range(loop):

now = find\_max(i)

if bt[now] > 0 and now >= 0:

bt[now] = bt[now] - 1

if bt[now] == 0:

ct[now] = i+1

avg\_tat = 0

print("\nProcess\tTAT")

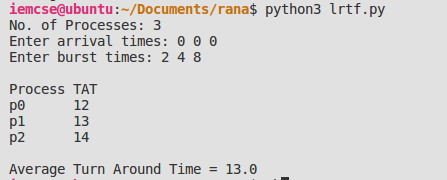
for i in range(n):

print("p"+str(i),"\t"+str(ct[i]-at[i]))

avg\_tat += ct[i] - at[i]

print("\nAverage Turn Around Time =",avg\_tat/n)

**Screen-Shot:**

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