## LABORATORY WORK SHEET

seturn total Time

Name of the Student: Muhd, Fauzan zohaib										1
Class Bitech CSE Semester III		Roll Number								
Course Code: ACSD10 Course Name: OS Laboratory	2	3	9	5	1	A	0	5	5	Н
Name of the Course Faculty. Mr. M Hari Krishna										
Exercise Number:	mi.	ł	lol	Da	ate :	1	1).	hai	<i>5</i> .	

## DAY TO DAY EVALUATION:

Marks	Aim / Preparation	Algorithm / Procedure	Source Code	Program Execution	Viva - Voce	
		Performance in the Lab	Calculations and Graphs	Results and Error Analysis		Total
Max. Marks	4	4	4	4	4	20
Obtained	U	Le allerintine	olamos 4 of a	Not off 1	4	20

Signature of Faculty

## START WRITING FROM HERE:

1. Getting started exercises

1.1 The Busy printer time Cexecution times printer it was the solution to be

code :-

def calculate Total Time (arrival Times, pages):

eursent Time = 0

total Time = colculate - total - time (200) smit - latot

: elector i in range (lenlarrival Times)):

( a count entity Carrival Times [i] != i):

total Time + = (arrival Times [i] - arrival Times [i-1)-1)

exe cution \_ times -

total Time = total Time + pages [1]

return total Time

arrivalTimes = [0, 1, 3, 5] = esmiTlavirra

pages = [10,5,3,7]

total Time = calculate Total Time (arrival Times, pages)

point (4" The total time taken to complete all pointing tasks is: E total Time's seconds ")

Output :-

The total time taken to complete all printing tasks is: 27 seconds.

1.2 The Software Developer's Tasks

cade:

def calculate total time (execution times):

total\_time=sum(execution\_times)

return total-time (oxivatione)

execution - times = [3,5,7,4]

lotal Time + - (orrival Times [1] - arrival Time

total-time = calculate - total-time (execution-times)

print (f" The total time veguired to complete all tasks is;

Etotal - time & hours ")

gutput:

The total time required to complete all tasks is: 19 knows

```
1.3 Managing a Restaurants Orders
code :-
                                                    -: 0000
     collections impost a deque proving trogail susup most
     calculate - total - time (orders, time - quantum):
def
       queue = deque (orders) () susup plissing = pg
      total-time of on smit-troubert utiling vot
      par put ((priority, treatment: susup)) slidu
          current_order = queue.popleft()
                                     total - time = 0
             current_order > time_quantum;
                 total time += time - quantum
                remaining - order - time = current - order - time-quantum
                queue append (Hemaining - order - time)
                                  weturn total-time,
         total time += current_order) ] = doutog
         total - time = calculate - total - time (patients)
    return total-time
point (f" The total time required to treat all patients
orders + [ 5, 3, 8, 6]
                                                -: tughio
time-quantum = 4
total - time = calculate - total - time (orders. time quantum).
print (f" The total time required to complete all order is:
                                      Etotal-time 3 minutes ).
gutput:-
The total time required to complete all order is . 22 minutes.
```

Emergency com prioritization of a papoard & 1 Code:from queue import priority Queue tragan emitorillos mort calculate = total - time (patients): - 10/01 - stalistics + 66 py = Priority Queue () (ezobro) ropoh = surup for priority, treatment - time in patients: pq. put ((priority, treatment - time)) current - order = queue. poplefili) total - time = 0 while not pop empty() - represent -, treatment\_time = pq. get () total\_time += treatment-time queue append stemaining - order - time) return total-time, patients = [(1,10), (2,8), (3,15), (4,5)]total - time = calculate - total-time (patients) print (f" The total time required to treat all patients is: Etatal\_time 3 minutes 13 output :tome-quantum = 4

The total time viequired to treat all patients is rebro un etelogramo et beringere amil lotet en " Estminutes

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