CYCLE-1 Expt. No. 1 (a) Handling Input and Output Date: 07-01-2022 Expt. Name.____ Aim: To write a python program Handling Input and Output. Algorithm: step 1: Start step 2: Get the input from the user step 3: print the output by multiplying the input value and 5 Step 4: Stop Program: print (Handling Input and Output); n= int (input ("Enta a number to be multiplied by 5:")) print ("Your answer for 5 x FO? is E1?: format (n, n*5)) Result: The above program is executed successfully and the output is attached.

Expt. No. 1 (b)		Page No2
Expt. Name. Loopi	ina Construct.	Date: 07-01-202 2
Expt. Name.	- G CONTRACTS	Date.
Aim: To write a 1	pythonp program using	Looping Constructs.
	py work program using	cooping estimates
step 3: Using	he input from the user for loop given range between	en land 11
step 4: Stop	: print the multiplication	of input value and humber
for i in	coping Constructs") put("Enter a number to ge range (1,11): (" 803 x 813 = 823" format (r	t their Multiplication tables:") n, i,n*i))
Result: The above is attached	program is executed sur	ccessfully and the output

Expt. No. 1(c) Page No. 3 Expt. Name. Arrays, Lists and set, dictionaries Date: 07-01-2021 Aim: To write a python program using Arrays, lists, set and dictionaries Algorithm: stepl: start step 2: import array library step 3: print the array given in the code step 4: initialize 2 lists and appens step 5: append the two lists and print it step6: initialize 2 sets step 7: append the two sets and print it. step 8: initialize a dictionary step 9: update the dictionary and print it step 10: Stop Program: import array as ar Print ("Array, Lists, Set and Dictionaries In") print ("Arrays") a = ar array (i', [1,2,3]) for in in range (0,3): print (acil, end: ") print ('Appending (istsin') U=['a' "b" "c"] 12=[1,2,3]

Expt. No	Page No4
Expt. Name.	_ Date :
Expt. Name.	_ Date .
for x in 12:	
11. append(2)	
print ("append list: ', end = " ")	
print (11)	
print ("In Appending Set, In")	
31=840, "6", "6"}	
82 = 81,2,3}	
set 3=Sl. union(*S2)	
print ("append set: ", end="")	
print (de set 3)	2
car = & 'brand': 'Ford', 'model': 'Mustang', 'year	1: 19649
print ("In Details of car before updating: In 803'. for	-mat (car))
car ["Color"]="white"	0 17
print ("In Details of a car ofter updating. mos".	format((ar))
Result:	and the output is
The above program is executed saccessing	
attached.	
Result: The above program is executed successfully a attached.	nd the output is

Expt. No. 2 (a)	
Expt. Name. Modules and Function	Page No
LAPI. TONCHON	Date: 07-01-2022
Aim:	
Alm: To write a Program using Modules and Function	
Algorithm:	
Stepl: Start	
Step 2: Create a function for sum, difference,	multiplication and
Divid Division	
step 3: Perform the respective operations in the	eir function
step 4: Call the function with the parameters	
step 5: stop	
0.0 m :	
trogram: def add(x,y):	
print(4 Sum of 803+ 813 = 823". format (x,y,	x+4))
def sull x,y):	
print (" Difference of 203-813 = 223", format	(x, y, x-y))
def mul(x,y):	<i>y</i> • • • • • • • • • • • • • • • • • • •
print (" Product of 203 * 513 = 223" format ((x, y, x*y))
do P disc(2,4):	
print ("Quotient of 80}/\$13= \$23" format	(x, y, x/y)
$add(^{2}, 3)$	
Sub (5,3)	
mul (10,5)	
dir(10,2)	
Result:	- d- d: dt-11
The above program is executed successfully and the	oupui is anached.

Expt. No. 2(b)	Page No6
Expt. Name. File Handling	Date: 07-01-2022
Aim:	
To write a python program using file Handlin	ng
Algorithm:	
Step 1: Start	
step 2: take the file as input step 3: Print the file name, mode of opening,	
step 4: Stop	
0	
Program: fo = open ("data.txt", "wb")	·
print ("Mode of opening.", for name)	
print ('File name:", fo.name)	
print ('Is closed!, fo. closed)	
Result: The above program is executed successfully of	and the out out
is attached.	

Expt. No. 2 (c)	Page No
Expt. Name. Exception Handling	_ Date:
Aim:	on Handling
To write a python program using Exception), , , , , , , , , , , , , , , , , , ,
Algorithm:	
stepl: Start	
step 2: initialize a list	
Step 3: Using try print the elements Step 4: Using except print the error occurred	
Step 5: Stop	
9	
Program: a = [1, 2, 3]	
+ry:	
print ("Second element = x d" x (a[])	
print ("Fourth element = Y.d " / (a[3]))	
except: print ("An error occurred")	
Result: The above code is executed successfully and	the output is
attached.	
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Expt. No. 3 Expt. Name. Given list, find second highest value Date: 07-01-2022
Aim: To write a python program to find the second highest value in a given list.
Algorithm: Step 1: Start Step 2: initialize the array Step 3: sort array using sort method step 4: print the second last element in the list step 5: Stop
Program: arr = [6,5,2,1,6,4] arr. sort(); print ('second highest element in list is:', arr[-27)
Result: The above code is executed successfully.