**PYTHON: ASSIGNMENT 03**

##### PROBLEM STATEMENT 1: Game of "Functions"

**Write a Python function to sum all the numbers in a list.**

Sample List : (8, 2, 3, 0, 7)

Expected Output : 20

Explanation:

Summation should like 8+2+3+0+7 = 20

**Code:**

my\_list = [8, 2, 3, 0, 7]

sum\_of\_numbers = sum(my\_list)

print(sum\_of\_numbers)

**EXECUTION:**

**A picture containing text, font, line, number

Description automatically generated**

##### PROBLEM STATEMENT 2: String inside the function

**Write a Python program to reverse a string.**

﻿Sample String : "1234abcd"

Expected Output : "dcba4321"

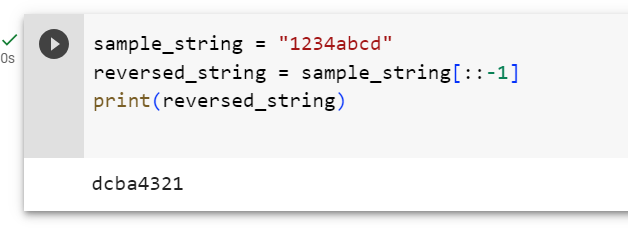
**Code:**

sample\_string = "1234abcd"

reversed\_string = sample\_string[::-1]

print(reversed\_string)

**EXECUTION:**

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##### PROBLEM STATEMENT 3: Calculate the Upper and The lower Case

**Write a Python function that accepts a string and calculate the number of upper case letters and lower case letters.**

﻿Sample String : 'The quick Brow Fox'

Expected Output :

No. of Upper case characters : 3

No. of Lower case Characters : 12

**Code:**

def count\_upper\_lower(string):

upper\_count = 0

lower\_count = 0

for char in string:

if char.isupper():

upper\_count += 1

elif char.islower():

lower\_count += 1

return upper\_count, lower\_count

# Example usage

sample\_string = 'The quick Brow Fox'

upper, lower = count\_upper\_lower(sample\_string)

print("No. of Upper case characters:", upper)

print("No. of Lower case characters:", lower)

**EXECUTION:**

