

UPES PYTHON LAB ASSIGNMENT

EXPERIMENT = 4

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BATCH= B8

QUESTION : 1

Q1. WAP to enter a string and a substring. You have to print the number of times that the substring occurs in the given string. String traversal will take place from left to right, not from right to left.

Sample Input

ABCD CDC

CDC

Sample Output

2

SOL:

```
1 string= input("enter a string : ")
2 substrng=input("enter a substring : ")
3 print(len(string.split(substrng)))
4
```

OUTPUT:

enter a string : ABCD CDC

enter a substring : CDC

2

QUESTION :2

Q2. WAP to input the first name, middle and last name of a person. Your task is to print the initials of the first and middle name separated by a dot (.)

The last name should be followed by a dot and a space where the first letter is capital.

Sample Input

Mohandas KaramChand Gandhi

Sample Output

M.K. Gandhi

```
1 string=input("enter a string: ")
2 print(string)
3 l=string.split(" ")
4 length=len(l)
5 st1=""
6 for i in range(0,length-1):
7     st=l[i]
8     st1=st1+st[0]+'.'
9 st1=st1+l[length-1]
10 print(st1)
11
```

OUTPUT:

```
enter a string: Mohandas KaramChand Gandhi
Mohandas KaramChand Gandhi
M.K.Gandhi
```

QUESTION : 3

Q3. Given a string containing both upper and lower case alphabets. Write a Python program to count the number of occurrences of each alphabet (case insensitive) and display the same.

Sample Input

ABaBCbGc

Sample Output

2A
3B
2C
1G

SOL:

```
1 string=input("enter a string:")
2 dict={}
3 for char in string:
4     char =char.upper()
5     if char in dict:
6         dict[char]= dict[char]+1
7     else:
8         dict[char]=1
9 print(string,dict)
10
```

OUTPUT:

```
enter a string:ABaBCbGc
ABaBCbGc {'A': 2, 'B': 3, 'C': 2, 'G': 1}
```