**ASSIGNMENT 4**

1. Write a program to enter a string. Calculate the length of the string. Find the substring country.

Count the occurences of each word in the given sentence.

If the String as input is India is my motherland. I love my country. Capital of India is New Delhi.

s=input()

print(len(s))

print(s.find('country'))

w=s.split()

d={}

for i in w:d[i]=d.get(i,0)+1

print(d)

2.Write a program that accepts a comma separated sequence of words as input and prints the words

in a comma-separated sequence after sorting them alphabetically.

Suppose the following input is supplied to the program:

without,hello,bag,world

Then, the output should be:

bag,hello,without,world

print(','.join(sorted(input().split(','))))

3. Write a program that accepts sequence of lines as input and prints the lines after making all

characters in the sentence capitalized.

Suppose the following input is supplied to the program:

Hello world

Practice makes perfect

Then, the output should be:

HELLO WORLD

PRACTICE MAKES PERFECT

while True:

s=input()

if not s:break

print(s.upper())

4. Write a program that accepts a sequence of whitespace separated words as input and prints the words after removing all duplicate words and sorting them alphanumerically.

Suppose the following input is supplied to the program:

hello world and practice makes perfect and hello world again

Then, the output should be:

again and hello makes perfect practice world

print(' '.join(sorted(set(input().split()))))

5. Write a program that accepts a sentence and calculate the number of letters and digits.

Suppose the following input is supplied to the program:

hello world! 123

Then, the output should be:

LETTERS 10

DIGITS 3

s=input()

l,d=0,0

for c in s:

if c.isalpha():l+=1

elif c.isdigit():d+=1

print('LETTERS',l)

print('DIGITS',d)

6 . Write a program which accepts a string as input to print &quot;Yes&quot; if the string is &quot;yes&quot; or &quot;YES&quot; or

&quot;Yes&quot;, otherwise print &quot;No&quot;.

print("Yes" if input().lower()=="yes" else "No")

7. Write a program which accepts a sequence of words separated by whitespace as input to print the

words composed of digits only.

Example:

If the following words is given as input to the program:

2 cats and 3 dogs.

Then, the output of the program should be:

[&#39;2&#39;, &#39;3&#39;]

In case of input data being supplied to the question, it should be assumed to be a console input.

print([i for i in input().split() if i.isdigit()])

8. Please write a program which count and print the numbers of each character in a string input by

console.

Example:

If the following string is given as input to the program:

abcdefgabc

Then, the output of the program should be:

a,2

c,2

b,2

e,1

d,1

g,1

f,1

from collections import Counter

s = input("Enter a string: ")

count = Counter(s)

for char, num in count.items():

print(f"{char},{num}")

9.Write a program that accepts a string

I. 1.reverses it.

II. 2.checks whether it is a palindrome.

III. 3.checks whether it ends with a specific substring.

IV. 4.capitalize the first letter of each word in a string

V. 5.check if a string is anagram of another string

VI. 6.remove vowels from string

VII. 7.find length of the longest word in a sentence