

Lab Assignment 6

A Gentle Introduction to Python (CCC634)

Max Marks (5 marks = 3 marks (lab evaluation) + 2 marks (Submission on Blackboard))

Deadline: 19-02-2024 (11:55 PM)

1. **Create a program that finds the average length of words in a sentence using an enumerator.**

Input:

This is a sample sentence to calculate average word length.

Output:

average word length: 5.0

2. **Given a paragraph as input, find the number of 3-length words in it.**

Input:

The invention of Braille was a major turning point in the history of disability.

Output:

3

Input:

Rivers help in agriculture. In fact, a lot of farmers depend on rivers for agricultural purposes.

Output:

2

3. **A user has to enter data in a web-portal for taxation. He has to enter his name and PAN number. Write a program which will verify the entered data. The name must contain only alphabets and each word in the name must have its first letters as capital letters. The PAN number must contain alphanumeric values and must not contain any small letters.**

Input:

Rakesh Kumar Singh

PQWS123TR

Output:

True

Input:

Rakesh kumar Singh

PQWS123TR

Input:

Rakesh Kumar Singh12

PQWS123TR

Output:

False

4. The students of Python class are asked to write a program to add 'ing' at the end of a given string (length should be at least 3). If the given string already ends with 'ing' then add 'ly' instead. If the string length of the given string is less than 3, leave it unchanged. Can you help them to implement it?

Input :

Interesting

Output

Interestingly

Input:

Interest

Output

Interesting

5. Once, Ram was playing a game with his brother. He asked him to extract all vowels present in a given sentence. Can you help his brother to do it by a Python program?

Enter a sentence: Hello how are you?

Vowels extracted from the sentence: ['e', 'o', 'o', 'a', 'e', 'o', 'u']

6. Two strings are given as input. Find the maximum length substring common to both the strings. Implement using python program.

Input:

assumptions

preassumption

Output:

assumption

Input:

The mistake was intentional

they take wastage

Output:

take was

7. Write a program that removes duplicate characters from a string using an enumerator.

Input:

programming

Output:

String after removing duplicates: progamin