**for practise on strings**

Task 1 . Count the vowels

To complete this task, you must end up with a program that prompts the user for a sentence, and then counts and displays the number of vowels in that sentence.

|  |  |
| --- | --- |
| **Example** |  |
| Note: Use this example to check your program. This is the output your program should produce when provided with this particular input. | |
| The program prompts the user for a sentence | Enter a sentence: |
| The user types in a reply | A foolish consistency is the hobgoblin of little minds |
| The program displays the number of vowels in the sentence | 16 vowels in this sentence |

**Step 1**

**Copy and paste** these lines of code in your development environment. They are provided **in no particular order**, some are **incomplete**, and there is **no indentation**.

|  |  |
| --- | --- |
|  | sentence = input()  vowel\_count = 0  vowel\_count = vowel\_count + 1  vowels = "aeiouAEIOU"  print(vowel\_count, "vowels in this sentence")  print("Enter a sentence:")  if character in :  for character in : |

**Step 2**

**Rearrange** these lines, **fill in the gaps**, and **add indentation** where appropriate, so that your program prompts the user for a sentence, and then counts and displays the number of vowels in that sentence. Task 2 . Sum the digits

To complete this task, you must end up with a program that prompts the user for a number, and then computes and displays the sum of the number’s digits.

|  |  |
| --- | --- |
| **Example** |  |
| Note: Use this example to check your program. This is the output your program should produce when provided with this particular input. | |
| The program prompts the user for a number | Enter a number: |
| The user types in a reply | 51324 |
| The program displays the sum of the number’s digits | Sum of digits in 51324 is 15 |

**Step 1**

**Copy and paste** these lines of code in your development environment. They are provided **in no particular order**, some are **incomplete**, and there is **no indentation**.

|  |  |
| --- | --- |
|  | number = input()  sum = 0  sum = sum + .  print("Sum of digits in", number, "is", sum)  print("Enter a number:")  for in :  digit = int(character) |

**Note:** The user is prompted for a number, but the number variable is a string, so that for can be used to iterate over each individual character of that string. The int function is applied to each individual character, instead of the entire number.

**Note:** For the purposes of this task, you can **assume** that the user will indeed provide a number. If they don’t, the program will terminate with a ValueError but you don’t need to worry about that.

**Step 2**

**Rearrange** these lines, **fill in the gaps**, and **add indentation** where appropriate, so that your program prompts the user for a number, and then computes and displays the sum of the number’s digits.

Resources are updated regularly — the latest version is available at: [ncce.io/tcc](http://ncce.io/tcc).

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