**Technical Design Document Template**

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**Program Description:**

This code has functions that will allow the user to enter a paragraph, including sentences which begin with numbers. It will also display each individual sentence and the count of sentences in the paragraph.

**Functions used in the Program:**

1. **Function Name:** count

**Description:** will count the number of sentences in the paragraph by checking with set pattern.

**Parameters:**

1. Sentences str -represents the paragraph the user inputs.

**Variables:**

1. Pat str -rgex pattern created to check for endings of a sentence.
2. Lst list -this list stores the sentences found by the pattern.

**Logical Steps:**

1. First we set a pattern for the function to check for: ?!.
2. Used the re findall module to find the sentences that match the pattern.
3. Store all sentences under lst.
4. Print the number of sentences.

**Returns:** N/A

2. **Function Name:** individual

**Description:** Function that will give the user the individual sentences in the paragraph.

**Parameters:**

1. Sentences str -represents the paragraph the user inputs.

**Variables:**

1. Pat str -rgex pattern created to check for sentences starting with a number or a capital letter until it ends with a .!?
2. M list -this list stores the sentences found by the pattern.

**Logical Steps:**

1. Defines the pattern that check for sentences starting with a number or a capital letter until it ends with a .!?
2. Uses re.findall and re.multiline to find all individual sentences and store it in m.
3. Loop through the list m and print each individual sentence found.

**Returns:** N/A

3. **Function Name:** main

**Description:** Defines main function that prints out the result and calls the other functions.

**Parameters:** N/A

**Variables:** Sentences str -represents the paragraph the user inputs.

**Logical Steps:**

1. Asks the user to enter their paragraph.
2. Stores the input as the sentences variable.
3. Call the other functions in the code.

**Returns:** N/A

**Logical Steps:**

1. Call the main function that contains other functions with logic.
2. The count() function is called using the sentences variable, prints the number of sentence sin user input.
3. The individual() function is called using the sentences variable, prints the individual sentences.
4. Program ends when everything is shown to the user.

**Link to your repository:** https://github.com/lrubioro