**Technical Design Document  
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**Date Created**: 03/10/2025

**Program Description**:  
This program is designed to take a paragraph as input, split it into individual sentences, and display each sentence along with the total number of sentences.

**Functions used in the Program**:

**Function Name**: split\_sentences(paragraph)  
**Description**:  
This function splits a given paragraph into individual sentences based on punctuation marks followed by spaces and a capital letter or number.

**Parameters**:

* paragraph (string): The paragraph of text entered by the user.

**Variables**:

* sentence\_pattern (string): A regular expression pattern used to identify sentence boundaries based on punctuation and capitalization.

**Logical Steps**:

1. Define a regular expression pattern to match sentence-ending punctuation (., !, or ?) followed by a space and an uppercase letter or number.
2. Use re.split() with the pattern to split the paragraph into sentences.
3. Strip any leading or trailing spaces from the sentences.
4. Return a list of non-empty sentences.

**Returns**:

* List of strings: A list of sentences in the paragraph, with each sentence as an individual element.

**Function Name**: main()  
**Description**:  
This function serves as the entry point of the program. It prompts the user for a paragraph, splits it into individual sentences using split\_sentences(), and displays each sentence along with the total number of sentences.

**Parameters**:

* None

**Variables**:

* paragraph (string): Stores the user's input paragraph.
* sentences (list): A list containing the individual sentences split from the paragraph.

**Logical Steps**:

1. Prompt the user to enter a paragraph of text.
2. Call split\_sentences() to split the paragraph into sentences.
3. Print each sentence along with its index number.
4. Display the total number of sentences.

**Returns**:

* None

**Link to your repository:** <https://github.com/NMHero1/COP2373>

