**Name:** Jadyn Brabham  
**Date Created:** 02/26/2025

**Program Description:**This program will ask the user to input a paragraph, including sentences which begin with numbers. The program will then split the paragraph into individual sentences using punctuation marks, count the number of sentences, and display each sentence along with the total count of sentences in the paragraph.

**Functions used in the Program (list in order as they are called):**1. **Function Name:** main()  
**Description:** The main function prompts the user to input the paragraph. Then the function calls the split\_into\_sentences and count\_sentences functions to process the input. The function splits the paragraph into individual sentences, counts them, and finally displays each sentence along with the total number of sentences.

**Parameters:** None  
**Variables:**

1. paragraph: The user-input paragraph to be processed.

**Logical Steps:**

1. Prompt the user to input a paragraph
2. Call the split\_into\_sentences(paragraph) function to split the paragraph into sentences.
3. Call the count\_sentences(sentences) function to count the number of sentences in the paragraph.
4. Display each individual sentence in the paragraph with the corresponding sentence number.
5. Display the total number of sentences in the paragraph.

**Returns:** None. The function does not return any value, but it prints the sentences and the total count of sentences.

2. **Function Name:** split\_into\_sentences(paragraph)

**Description:** The split\_into\_sentences(paragraph) function splits the paragraph input by the user into individual sentences using a regular expression to match sentence-ending punctuation marks followed by spaces.  
**Parameters:**

1. paragraph: a string representing the paragraph entered by the user

**Variables:**

1. sentences: a list of sentences from the paragraph

**Logical Steps**:

1. Define a regular expression pattern to identify sentence-ending punctuation marks followed by one or more spaces.
2. Use re.split() to split the paragraph into a list of sentences based on the identified punctuation marks.

**Returns:**

1. sentences: a list of sentences taken out of the paragraph

3.**Function Name:** count\_sentences(sentences)

**Description:** The count\_sentences(sentences) function counts the number of sentences in a list.

**Parameters:**

1. sentences: a list containing the sentences in the paragraph

**Variables:** None

**Logical Steps:**

1. Use the len() function to count the number of sentences in the list sentences.

**Returns:**

1. len(sentences): An integer representing the number of sentences in the paragraph

**Logical Steps:**

1. Call the main function
2. Inside the main() function, the user is prompted to enter a paragraph.
3. The split\_into\_sentences() function is called within the main function to split the paragraph into individual sentences.
4. The count\_sentences() function is called within the main function to count the number of sentences in the paragraph.
5. Each individual sentence along with the total number of sentences is displayed to the user.

**Link to your repository:** <https://github.com/jbrabham23/COP2373/tree/master>

**Program Working:**

**A screenshot of a computer

AI-generated content may be incorrect.**