**Technical Design Document**

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**Program Description:**

The goal of this code is to create a program that prompts the user to enter a paragraph and displays the sentences as well as total number of sentences in the paragraph.

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

**Description:** This function splits the paragraph into individual sentences.

**Parameters:** paragraph – the paragraph the user inputs

**Variables:**

1. sentence\_pattern – regular expression pattern used to split the paragraph into sentences
2. sentences – all the sentences obtained after splitting the paragraph

**Logical Steps:**

1. define a regular expression pattern to match sentence ending punctuation
2. split the paragraph into parts
3. return the list of complete sentences

**Returns:** list of sentences obtained from the paragraph

**Function Name:** display\_sentences\_and\_count(sentences)

**Description:** This function displays each individual sentence and total count of the sentences.

**Parameters:** sentences – all the sentences in the paragraph

**Variables:**

1. i – used to number each sentence when printed
2. sentence – each sentence being printed

**Logical Steps:**

1. loop through each sentence
2. print each sentence
3. print the total number of sentences

**Returns:** None

**Function Name:** main ()

**Description:** This function gets input from the user and processes and displays the result.

**Parameters:** None

**Variables:**

1. paragraph – paragraph entered by the user
2. sentences – result of calling split\_into\_sentences() function

**Logical Steps:**

1. prompt the user to enter a paragraph
2. call on the split\_into\_sentences() and display\_sentences\_and\_count() functions
3. print the individual sentences in a list and display the total number of sentences

**Returns:** sentences and total count

[COP2373 Repository](https://github.com/kristinachorna/COP2373)

A screenshot of a computer program

Description automatically generated