**Technical Design Document Template**

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**Program Description:**

This program accepts an input from the user, and displays each individual sentence from the input, including sentences that begin with numbers. Then the program counts how many sentences are in the input.

**Functions used in the Program (list in order as they are called):**

1. **Function Name:** main()

**Description:** This function asks the user to input their paragraph, then the function calls the split\_sentences() function within itself, in order to split the input into a list of sentences. The function then displays the sentences individually, then displays the total number of sentences.

**Parameters:** N/A

**Variables:**

1. paragraph: The input of the user.

2. sentences: The list of sentences that the split\_sentences() function returns.

3. n: The current sentence number.

4. s: The text of the current sentence.

**Returns:** Does not return any data. The function directly prints the returned data of the split\_sentences() function called within main.

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

**Description:** This function creates a pattern in order to split the input of the user in the main function and then returns the split sentences as a list.

**Parameters:**

1. paragraph: the user’s input from the main function

**Variables:**

1. pattern: the pattern in which the paragraph is compared to in order to split each sentence.
2. paragraph: the user’s input from the main function.

**Logical Steps:**

1. Create the pattern in order to split the paragraph.
2. Return the list of sentences from the split paragraph.

**Returns:** Returns a list of sentences.

**Link to your repository:** <https://github.com/7aaden/COP2373-Semester-1>

**Output Screenshot:**

