Dylan

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**1. Description of the Program:**  
This program allows the user to input a paragraph that may contain sentences starting with numbers. It then uses a lookahead regular expression to split the section into individual sentences while keeping punctuation intact. Finally, it displays each sentence on its line along with the total count of sentences detected.

**2. Functions Created:**

* split\_sentences(paragraph: str) -> list[str]
  + **Purpose:** Splits the input paragraph into sentences based on punctuation marks (., ?, !).
  + **Parameters:**
    - paragraph: A string containing the user’s input text.
  + **Returns:**
    - A list of strings, where each string is a sentence from the paragraph.
  + **Details:** Uses a lookahead regex pattern (?<=[.!?])\s+ to split the paragraph at spaces that follow sentence-ending punctuation, ensuring punctuation stays at the end of each sentence.
* display\_sentences(sentences: list[str]) -> None
  + **Purpose:** Prints each sentence in a numbered list and shows the total number of sentences found.
  + **Parameters:**
    - sentences: A list of sentence strings to display.
  + **Returns:** None
* main() -> None
  + **Purpose:** Acts as the program’s entry point. It prompts the user for input, processes the paragraph by splitting it into sentences, and then displays the results.
  + **Parameters:** None
  + **Returns:** None

**3. Logical Steps to the Program:**

* Prompt the user to enter a paragraph, allowing for sentences that start with numbers.
* Call split\_sentences() with the user input to break the paragraph into sentences, using a regex that looks ahead for punctuation marks followed by spaces.
* Pass the resulting list of sentences to display\_sentences(), which:
  + Prints each sentence with a number prefix.
  + Prints the total count of sentences at the end.
* The program starts running from the main() function when executed as a standalone script.

**4. Link to your COP2373 repository**

<https://github.com/Shinymon/COP2373>

A screenshot of a computer code

AI-generated content may be incorrect.**5. Screenshot**