**LangChain Agent Task:**

Write a program utilizing the **LangChain** **Agent** to initiate and execute three distinct sub-chains. The program should operate on the one input parameter utilizing the agent feature. The intent of the user (the input) should be handled by the LangChain agent automatically, and the sub-chain should be called accordingly.

The tasks to be accomplished include:

Sub-chain1: Extracting a summary from the provided text;

Sub-chain2: Identifying and extracting the titles/headings from the given text;

Sub-chain3: Calculating and returning the token count of the input text.

The provided text is attached to the e-mail. Please test your code with the following user input examples.

Example prompt 1:

What is the summary of the following text: <copy and paste the provided text>

Example prompt 2:

Extract the titles or headings of the given text: <copy and paste the provided text>

Example prompt 3:

How many tokens are in the following text: <copy and paste the provided text>

Please also create 2-3 individual test cases for each sub-chain to showcase the effectiveness of your code. Each of these test cases should incorporate intuitive user inputs relevant to each sub-chain. Furthermore, outline the reasons behind your choice of test cases and provide a concise interpretation of the test results.

In an ideal scenario, your code would successfully pass all the test cases, but there's a possibility that it might not. If you're unable to complete the task, do provide an explanation detailing your achievements and any technical limitations you faced.

To sum up:

* Write your code in Python language.
* Write your tests
* Explain your implementation in case tests are failed.