1. INITIALIZATION:

- Import necessary libraries (e.g., transformers, torch).

2. SETUP FOR SUMMARIZATION:

- Load a suitable tokenizer and a pre-trained summarization model (might not be BioBERT if there's no fine-tuned BioBERT for summarization).

- Define a function `summarize\_text(input\_text)`:

- Tokenize the `input\_text`.

- Pass tokenized input through the summarization model.

- Decode and return the generated summary.

3. SETUP FOR QUESTION-ANSWERING:

- Load BioBERT tokenizer and a BioBERT model fine-tuned for question-answering.

- Define a function `answer\_question(summary, question)`:

- Combine the `summary` and `question` with special tokens.

- Tokenize the combined text.

- Pass tokenized input through the QA model.

- Extract the span of tokens with the highest start and end scores.

- Decode and return the answer.

4. MAIN EXECUTION:

- Input: Long biomedical text and a question related to the text.

- Call `summarize\_text(input\_text)` to get a summarized version.

- Call `answer\_question(summary, question)` to get an answer based on the summary.

- Display the summary and the answer.

5. OPTIONAL:

- Visualize results, attention maps, etc.

- Iterate over different questions or refine models based on feedback.