**Problem 3:**

**Problem:** Design and evaluate prompts to improve the performance of a given AI model on a specific task (e.g., summarization, question answering).

**Approach:**

**AI model Used**: Facebook-Meta model,” **llama-2-7b-chat.ggmlv3.q8\_0.bin**”

**Description:**

* Langchain library is installed and imported used for processing the document
* Sentence-transformers is installed for embedding the texts, images
* RecursivecharacterTextsplitter is used for creating smaller chunks and splited the texts in the document
* sentence-transformers/all-MiniLM-L6-v2 model from the sentence-transformers library is used for embedding using the HuggingfaceEmbeddings object in the code
* The embedded vectors are stored in FAISS, Facebook AI Similarity Search
* CTransformers is an efficient and compact class model used for interacting with models for natural language processing
* Prompt is written for the efficient and required query
* The model is ready for making query and to get the answers

**Solution:**

A simple and efficient model is designed to make prompts for getting the query answered.