**OVERVIEW:**

This describes the implementation of simple negotiation chatbox developed in the C programming Language. The chatbox simulates a negotiation process between the customer and a supplier. It allows the user to propose the prices and providing feedback.

**REQUIREMENT:**

* GCC compiler.
* Linux command line interface.
* C programming language.

**MODEL INTEGARTION:**

* **User Interaction**: The chatbot interacts with the user via the console, requesting a desired price and a sentiment description.
* **Basic conversation flow:** The chatbot should initiate a negotiation for a product price, where the user (customer) can either accept, reject, or propose a counteroffer.
* **Sentiment Analysis**: Basic sentiment analysis is implemented using string searching to check for positive keywords. If the user expresses a positive sentiment, the chatbot responds accordingly, offering better deals.
* **Negotiation Logic**: The program contains predefined price limits and logic to handle user offers. Based on the input price and sentiment, the chatbot determines the response, simulating a negotiation process.
* **Bonus (optional):** Implement sentiment analysis to improve negotiation outcomes. For example, if the user is polite, the chatbot might offer better deals.

**WORKFLOW:**

* **User Input**: The user is prompted to enter a desired price**.**
* **Sentiment Description:** The user provides feedback on their feelings about the proposed price.
* **Sentiment Analysis:** The chatbot checks for positive keywords in the sentiment description.
* **Negotiation Response**: Based on the price and sentiment analysis, the chatbot responds with an appropriate message.

**CONCLUSION**:

This C programming based negotiation chatbot serves as a simple simulation of a negotiation process between a Customer and the Suppiler, utilizing basic programming constructs to handle user input and feedback. It demonstrates fundamental concepts in chatbot development without complex AI model integration.