Name: Yelamarthi Mahima Task: AI chatbot with NLP

Internship: CODTECH PYTHON INTERNSHIP

Objective:

To implement a chatbot application using Python, which responds to specific inputs based on a predefined knowledge base.

Tools & Libraries Used:

- Python: Core language for scripting.
- NLTK: Natural Language Toolkit used for tokenization and chatbot implementation.

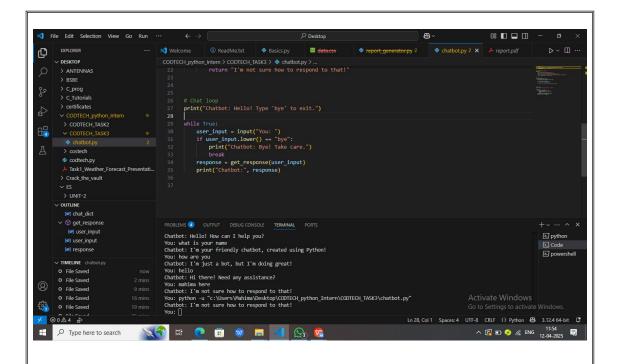
Implementation:

The chatbot was implemented using a dictionary (chat_dict) that contains responses to common queries. The logic involves:

- Tokenizing user input.
- Matching user input with the knowledge base (dictionary).
- Returning predefined responses or a default reply if the query isn't recognized.

Code:

Below is the Python script:



Usage Instructions:

- Install NLTK library using pip install nltk.
- Ensure the NLTK data path is correctly configured to: C:/Users/Mahima/AppData/Roaming/nltk data.
- Run the script in an IDE like VS Code.
- Interact with the chatbot via terminal input.

Output:

The chatbot responds to predefined queries as demonstrated below:

User Input: "hi"

Chatbot Response: "Hello! How can I help you?"

Conclusion:

Successfully implemented a chatbot using Python. Learned how to utilize dictionaries for knowledge bases and integrated NLTK for tokenization.

Thanks to CODTECH for the opportunity.