**TASK 12**

**Explanation:**

This chatbot is designed to serve as a **University Admission Guide** using **Natural Language Processing (NLP)**. It works by taking user queries (e.g., “How can I apply for a scholarship?”), comparing them to a small set of predefined FAQs, and returning the most relevant answer. The core idea is **semantic similarity**: instead of matching exact keywords, it understands the meaning behind the user's question using a pretrained NLP model (all-MiniLM-L6-v2) from the sentence-transformers library. This model converts both user questions and FAQ questions into numerical **embeddings** (vectors that capture their meaning). These embeddings are stored in a fast search index called **FAISS**, which enables quick similarity matching. When the user asks something, their query is also embedded and compared to the FAQ embeddings using **nearest neighbor search** to find the best match. The chatbot is implemented with a simple **command-line interface** that continuously prompts for input and responds until the user types "exit".