## Project 3: Create a chatbot in Python.

## Problem Statement:

## When using an app or website, customers expect outstanding service. They can become disinterested in the app if they can't locate the solution to a question they have. To avoid losing customers and having an adverse effect on your bottom line, you must provide the highest quality service possible while developing a website or application.

## Problem Definition:

## The problem is to build an AI-powered diabetes prediction system that uses machine learning algorithms to analyze medical data and predict the likelihood of an individual developing diabetes. The system aims to provide early risk assessment and personalized preventive measures, allowing individuals to take proactive actions to manage their health.

**Design Thinking:**

1. Functionality: Define the scope of the chatbot's abilities, including answering common questions, providing guidance, and directing users to appropriate resources.
2. User Interface: Determine where the chatbot will be integrated (website, app) and design a user-friendly interface for interactions.
3. Natural Language Processing (NLP): Implement NLP techniques to understand and process user input in a conversational manner.
4. Responses: Plan responses that the chatbot will offer, such as accurate answers, suggestions, and assistance.
5. Integration: Decide how the chatbot will be integrated with the website or app.
6. Testing and Improvement: Continuously test and refine the chatbot's performance based on user interactions.