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Problem Statement : Develop an elementary chatbot for any suitable customer interaction application.

## Importing required libraries

import random

## Dictionary of predefined responses

responses = { "greeting": ["Hello!", "Hi!", "Welcome!"], "farewell": ["Goodbye!", "See you later!", "Take care!"], "thanks": ["You're welcome!", "No problem!", "My pleasure!"], "default": ["I'm sorry, I didn't understand.", "Could you please rephrase that?", "I'm still learning. Can you provide more information?"] }

## Function to generate a response based on user input

def generate\_response(user\_input): user\_input = user\_input.lower()

```
# Check for common keywords in user input
if "hello" in user_input or "hi" in user_input:
    return random.choice(responses["greeting"])
elif "goodbye" in user_input or "bye" in user_input:
    return random.choice(responses["farewell"])
elif "thank" in user_input:
    return random.choice(responses["thanks"])
else:
    return random.choice(responses["default"])
```

## Main interaction loop

while True:

```
# Get user input
user_input = input("User: ")

# Generate and display bot response
bot_response = generate_response(user_input)
print("Bot:", bot_response)
```

```
In [ ]:
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