

✓ Task 1:CHATBOT WITH RULE-BASED

RESPONSES

```
# Define the chatbot responses
def chatbot_response(user_input):
    # Predefined responses
    responses = {
        "hello": "Hi! How can I help you today?",
        "hi": "Hello! How can I assist you?",
        "what's your name?": "I'm your friendly chatbot!",
        "how are you?": "I'm just a bot, but I'm here to help you!",
        "bye": "Goodbye! Have a nice day!"
    }

    # Convert user input to lowercase to handle case sensitivity
    user_input = user_input.lower()

    # Find the response based on user input
    if user_input in responses:
        return responses[user_input]
    else:
        return "Sorry, I didn't understand that. Can you please rephrase?"

# Start the chat
print("Chatbot: Hello! Type 'bye' to exit.")
while True:
    user_input = input("You: ")
    if user_input.lower() == "bye":
        print("Chatbot: Goodbye! Have a nice day!")
        break
    else:
        response = chatbot_response(user_input)
        print(f"Chatbot: {response}")
```

```
➦ Chatbot: Hello! Type 'bye' to exit.
You: Hello
Chatbot: Hi! How can I help you today?
You: What's your name?
Chatbot: I'm your friendly chatbot!
You: How are you?
Chatbot: I'm just a bot, but I'm here to help you!
You: Bye
Chatbot: Goodbye! Have a nice day!
```

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