def chatbot\_response(user\_input):

# Convert user input to lowercase for case-insensitive matching

user\_input = user\_input.lower()

# Define predefined rules and responses

rules = {

"hello": "Hi there! How can I assist you?",

"how are you": "I'm just a bot, but thanks for asking!",

"bye": "Goodbye! Have a great day!",

"thank you": "You're welcome!"

}

# Check if user input matches any predefined rules

for rule, response in rules.items():

if rule in user\_input:

return response

# If no predefined rule matches, provide a default response

return "I'm sorry, I don't understand. Can you please rephrase your question?"

# Main function to interact with the chatbot

def main():

print("Welcome to the Simple Chatbot!")

print("You can start chatting. Type 'bye' to exit.")

while True:

user\_input = input("You: ")

# Exit the loop if user says 'bye'

if user\_input.lower() == 'bye':

print("Chatbot: Goodbye! Have a great day!")

break

# Get chatbot response based on user input

bot\_response = chatbot\_response(user\_input)

print("Chatbot:", bot\_response)

if \_\_name\_\_ == "\_\_main\_\_":

main()