```
# Import necessary libraries
import re
import random

# Define a dictionary to store user input and corresponding responses
responses = {
    "hello": ["Hello!", "Hi there!", "Hey!"],
    "how are you": ["I'm good, thank you!", "I'm doing well, thanks for asking!"],
    "bye": ["Goodbye!", "See you later!", "Bye!"]
}

# Define a function to process user
```

```
input and generate a response
def chatbot(input_text):
    input_text = input_text.lower()  # Convert input to lowercase
    response = "I'm sorry, I don't understand."  # Default response

    # Check if input matches any key in the responses dictionary
    for key in responses:
        if re.search(key, input_text):
            response = random.choice(responses[key])
            break

    return response

# Main function to interact with
```

```
the user
def main():
    print("Welcome to the chatbot!")
    while True:
        user_input = input("You: ")
        if user_input.lower() == "exit":
            print("Chatbot: Goodbye!")
            break
        else:
            bot_response =
chatbot(user_input)
            print("Chatbot:",
bot_response)

# Call the main function to start
the chatbot
if __name__ == "__main__":
    main()
```