

```
# Basic Rule-Based Chatbot
```

```
def chatbot_response(user_input):  
    user_input = user_input.lower() # convert input to lowercase for matching
```

```
    if "hello" in user_input:  
        return "Hi!"  
    elif "how are you" in user_input:  
        return "I'm fine, thanks!"  
    elif "bye" in user_input:  
        return "Goodbye!"  
    else:  
        return "Sorry, I don't understand that."
```

```
def run_chatbot():  
    print("Chatbot: Hello! Type 'bye' to exit.")  
    while True:  
        user_input = input("You: ")  
        response = chatbot_response(user_input)  
        print("Chatbot:", response)  
        if "bye" in user_input.lower():  
            break
```

```
# Run the chatbot  
run_chatbot()
```