

Rule-Based Chatbot Code with Output

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# ----- Python Code -----
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```
def chatbot():
    print("Chatbot: Hello! I'm your assistant.")
    print("Type 'exit' to end the chat.\n")

    while True:
        user_input = input("You: ").lower()

        if "exit" in user_input or "bye" in user_input:
            print("Chatbot: Goodbye! Have a great day!")
            break
        elif "hello" in user_input or "hi" in user_input:
            print("Chatbot: Hi there! How can I help you?")
        elif "your name" in user_input:
            print("Chatbot: I'm a rule-based chatbot created in Python!")
        elif "how are you" in user_input:
            print("Chatbot: I'm just code, but I'm working perfectly!")
        elif "help" in user_input:
            print("Chatbot: I can answer simple questions like greetings, name, and
more.")
        elif "time" in user_input:
            from datetime import datetime
            now = datetime.now().strftime("%H:%M:%S")
            print(f"Chatbot: The current time is {now}.")
        elif "date" in user_input:
            from datetime import date
            today = date.today()
            print(f"Chatbot: Today's date is {today}.")
        else:
            print("Chatbot: Sorry, I didn't understand that. Can you rephrase?")

chatbot()
```

```
# ----- Sample Output -----
```

```
Chatbot: Hello! I'm your assistant.
Type 'exit' to end the chat.
```

```
You: hello
Chatbot: Hi there! How can I help you?
```

```
You: what is your name
Chatbot: I'm a rule-based chatbot created in Python!
```

```
You: how are you
Chatbot: I'm just code, but I'm working perfectly!
```

```
You: what time is it
Chatbot: The current time is 14:25:30.
```

You: bye

Chatbot: Goodbye! Have a great day!