

```

In [*]: import nltk
        from nltk.chat.util import Chat, reflections

pairs = [
    [
        r"(hi|hello|hey)",
        ["Hello!", "Hi there!", "How can I help you today?"]
    ],
    [
        r"(name|what is your name|your name)",
        ["I'm a chatbot developed by XYZ group."]
    ],
    [
        r"(how are you|how's it going)",
        ["I'm just a chatbot, so I don't have feelings, but I'm here to assist you."]
    ],
    [
        r"(who created you|who is your creator)",
        ["I was created by the EUUU group as an AI chatbot."]
    ],
    [
        r"(what is the weather today|tell me the weather|weather report)",
        ["I'm sorry, I don't have access to real-time weather data. You can check a website for the latest weather updates."]
    ],
    [
        r"(how old are you|your age)",
        ["I'm a computer program, so I don't have an age in the way humans do."]
    ],
    [
        r"(tell me a joke|joke)",
        ["Why don't scientists trust atoms? Because they make up everything!", "Did you hear about the mathematician who was afraid of negative numbers? He refused to go below zero."]
    ],
    [
        r"(what's the time|current time|time now)",
        ["I'm sorry, I don't have access to real-time clock information. You can check your device for the current time."]
    ],
    [
        r"(favorite color|what's your favorite color)",
        ["I don't have preferences, but I suppose I'd choose 'binary' if I had to pick a color."]
    ],
    [
        r"(tell me a fun fact|fun fact)",
        ["The honeybee is the only insect that produces food that we eat."]
    ],
    [
        r"(how can I learn programming|learn coding)",
        ["Learning programming is a great idea! You can start by taking online courses or reading books on the subject."]
    ],
    [
        r"(define AI|what is artificial intelligence)",
        ["Artificial Intelligence (AI) is the simulation of human intelligence processes by machines, especially computer systems."]
    ],
    [
        r"(recommend a book|good book to read)",
        ["I recommend 'The Hitchhiker's Guide to the Galaxy' by Douglas Adams. It's a classic sci-fi novel."]
    ],
    [
        r"(tell me a riddle|riddle)",
        ["I'm a chatbot, not a riddler, but here's one for you: I'm taken from a mine and run over by rollers, yet never warm. What am I?"]
    ]
]

chatbot = Chat(pairs, reflections)

print("Hello! I'm your chatbot. Type 'exit' to end the conversation.")

```

```
while True:
    user_input = input("You: ")
    if user_input.lower() == 'exit':
        print("Chatbot: Goodbye!")
        break
    response = chatbot.respond(user_input)
    print("Chatbot:", response)
```

Hello! I'm your chatbot. Type 'exit' to end the conversation.

You: What is your name

Chatbot: I'm a chatbot developed by XYZ group.

You:

In []: