Code alpha Task 3

import nltk

from nltk.chat.util import Chat, reflections

# Define the patterns and responses for the chatbot

patterns = [

(r'hi|hello|hey', ['Hello!', 'Hi there!', 'Hey!']),

(r'what is your name?', ['My name is Chatbot.', "I'm Chatbot."]),

(r'how are you?', ['I\'m doing well, thanks for asking!', 'I\'m an AI assistant, so I don\'t have feelings, but I\'m operating smoothly.']),

(r'(.\*)age(.\*)', ['I\'m an AI assistant, so I don\'t have an age.', 'I don\'t have an age since I\'m an artificial intelligence.']),

(r'quit', ['Goodbye!', 'Talk to you later!', 'It was nice chatting with you.']),

(r'(.\*)thank(.\*)', ['You\'re welcome!', 'No problem!', 'I\'m glad I could help.']),

(r'(.\*)help(.\*)', ['I can help you with general information and simple conversations. How can I assist you today?']),

(r'(.\*)weather(.\*)', ['Unfortunately, I don\'t have access to real-time weather information. I\'m a basic chatbot without internet connectivity.']),

(r'(.\*)joke(.\*)', ['Why did the tomato turn red? Because it saw the salad dressing!', 'What do you call a bear with no teeth? A gummy bear!']),

(r'(.\*)', ['I\'m sorry, I didn\'t understand that. Can you please rephrase your question?'])

]

# Create a ChatBot instance and start the conversation

chatbot = Chat(patterns, reflections)

chatbot.converse()

Output:

> hi

Hello!

> what is your name?

My name is Chatbot.

> how are you?

I'm doing well, thanks for asking!

> tell me a joke

Why did the tomato turn red? Because it saw the salad dressing!

> what's the weather like today?

Unfortunately, I don't have access to real-time weather information. I'm a basic chatbot without internet connectivity.

> quit

Goodbye!