

Pract 5

```
import nltk
from nltk.chat.util import Chat, reflections

# Define pairs of patterns and responses for the chatbot
pairs = [
    [
        "hi",
        ["Hello!", "Hey there!", "Hi!"]
    ],
    [
        "how are you ?",
        ["I'm doing well, thank you!", "I'm good, thanks for asking.", "I'm fine, how about you?"]
    ],
    [
        "what is your name ?",
        ["You can call me ChatBot.", "I'm ChatBot!", "My name is ChatBot."]
    ],
    [
        "what can you do ?",
        ["I can help you with pizza orders, weather information, and more! Just ask."]
    ],
    [
        "weather in",
        ["The weather is perfect!", "It's sunny right now."]
    ],
    [
        "order pizza",
        ["Sure, what type and size of pizza would you like to order?"]
    ],
    [
        "thank you",
        ["You're welcome!", "No problem!", "Anytime!"]
    ],
    [
        "quit",
        ["Bye! Take care.", "Goodbye! See you later.", "Come back soon!"]
    ]
]

# Create a chatbot using the defined pairs
chatbot = Chat(pairs, reflections)

# Start interacting with the user
print("Welcome to ChatBot!")
while True:
    user_input = input("You: ")
    response = chatbot.respond(user_input)
    print("ChatBot:", response)
```