

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

# Define pairs of patterns and responses
pairs = [
    [
        r"my name is (.*)",
        ["Hello %1, how can I help you today?",""],
    ],
    [
        r"hi|hello|hey",
        ["Hello!", "Hi there!", "Hey! How can I assist you?"]
    ],
    [
        r"what is your name?",
        ["I am a chatbot created using NLTK."],
    ],
    [
        r"how are you?",
        ["I'm just a program, but thanks for asking!", "Doing well, how about you?"]
    ],
    [
        r"i need some help",
        ["Sure!what do you need help with."],
    ],
    [
        r"quit",
```

```
    ["Bye! Take care.", "Goodbye! Have a nice day!"]  
],  
[  
    r"(.*)",  
    ["I'm sorry, I don't understand that."]  
]  
]
```

```
# Create a chatbot instance  
chatbot = Chat(pairs, reflections)
```

```
# Start the conversation  
def start_chat():  
    print("Hi! I'm a chatbot. Type 'quit' to exit.")  
    chatbot.converse()
```

```
if __name__ == "__main__":  
    start_chat()
```