```
In [6]:  pip install nltk

Requirement already satisfied: nltk in c:\users\pc2\appdata\local\programs\python\python311\lib\site-packages (3
.8.1)
Requirement already satisfied: click in c:\users\pc2\appdata\local\programs\python\python311\lib\site-packages (
from nltk) (8.1.7)
Requirement already satisfied: joblib in c:\users\pc2\appdata\local\programs\python\python311\lib\site-packages
(from nltk) (1.3.2)
Requirement already satisfied: regex>=2021.8.3 in c:\users\pc2\appdata\local\programs\python\python311\lib\site-
packages (from nltk) (2023.10.3)
Requirement already satisfied: tqdm in c:\users\pc2\appdata\local\programs\python\python311\lib\site-packages (f
rom nltk) (4.66.1)
Requirement already satisfied: colorama in c:\users\pc2\appdata\local\programs\python\python311\lib\site-package
s (from click->nltk) (0.4.6)
Note: you may need to restart the kernel to use updated packages.
```

```python
In [7]:  import nltk
         from nltk.chat.util import Chat, reflections

         nltk.download('punkt')

         pairs = [
             [
                 r"hi|hello|hey",
                 ["Hello!", "Hi there!", "How can I help you?"]
             ],
             [
                 r"what is your name?",
                 ["I'm a chatbot.", "I don't have a name, I'm just a bot."]
             ],
             [
                 r"how are you?",
                 ["I'm just a computer program, so I don't have feelings, but thanks for asking!"]
             ],
             [
                 r"what can you do?",
                 ["I can answer your questions, provide information, or just chat with you."]
             ],
             [
                 r"bye|goodbye",
                 ["Goodbye!", "It was nice chatting with you."]
             ],
         ]

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

```
[nltk_data] Downloading package punkt to
[nltk_data]     C:\Users\pc2\AppData\Roaming\nltk_data...
[nltk_data]   Package punkt is already up-to-date!
```

```python
In [10]:  print("Hi, 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)
```

```
Hi, I'm your chatbot. Type 'exit' to end the conversation.
Chatbot: How can I help you?
Chatbot: I'm a chatbot.
Chatbot: Hi there!
Chatbot: I'm just a computer program, so I don't have feelings, but thanks for asking!
Chatbot: I can answer your questions, provide information, or just chat with you.
Chatbot: Goodbye!
Chatbot: Goodbye!
Chatbot: Goodbye!
```

In [ ]:

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