

In [1]: !pip install nltk

```
Requirement already satisfied: nltk in c:\users\dell\anaconda3\lib\site-packages (3.8.1)
Requirement already satisfied: click in c:\users\dell\anaconda3\lib\site-packages (from nltk) (8.0.4)
Requirement already satisfied: joblib in c:\users\dell\anaconda3\lib\site-packages (from nltk) (1.2.0)
Requirement already satisfied: regex<=2021.8.3 in c:\users\dell\anaconda3\lib\site-packages (from nltk) (2022.7.9)
Requirement already satisfied: tqdm in c:\users\dell\anaconda3\lib\site-packages (from nltk) (4.65.0)
Requirement already satisfied: colorama in c:\users\dell\anaconda3\lib\site-packages (from click->nltk) (0.4.6)
```

In [2]: `import nltk`  
`from nltk.chat.util import Chat, reflections`

```
# Download NLTK data files
nltk.download('punkt')
```

```
[nltk_data] Downloading package punkt to
[nltk_data] C:\Users\dell\AppData\Roaming\nltk_data...
[nltk_data] Unzipping tokenizers\punkt.zip.
```

Out[2]: True

In [3]: `# Define the conversation patterns`  
`pairs = [`  
 `[`  
 `r"my name is (.*)",`  
 `["Hello %1, how are you today?,"],`  
 `],`  
 `[`  
 `r"hi|hey|hello",`  
 `["Hello!", "Hey there!,"],`  
 `],`  
 `[`  
 `r"what is your name?",`  
 `["My name is Chatbot."],`  
 `],`  
 `[`  
 `r"how are you?",`  
 `["I'm doing good, how about you?,"],`  
 `],`  
 `[`  
 `r"sorry (.*)",`  
 `["It's alright.", "No problem."],`  
 `],`  
 `[`  
 `r"I (.*) good",`  
 `["Great to hear that!", "Awesome!,"],`  
 `],`  
 `[`  
 `r"quit",`  
 `["Bye! Take care."],`  
 `],`  
`]`  
  
`# Create a chat object`  
`chat = Chat(pairs, reflections)`

In [4]: `def start_chatbot():`  
 `print("Hi! I'm a chatbot. Type 'quit' to exit the conversation.")`  
 `chat.converse()`

In [ ]: `# Start the chatbot`  
`start_chatbot()`

```
Hi! I'm a chatbot. Type 'quit' to exit the conversation.
>hi
Hello!
>how are you ?
I'm doing good, how about you?
>good
None
>hello
Hello!
```

In [ ]: