

In [1]: `pip install nltk`

```
Requirement already satisfied: nltk in c:\users\asif nawaz\anaconda3\lib\site-packages (3.7)
Requirement already satisfied: click in c:\users\asif nawaz\anaconda3\lib\site-packages (from nltk) (8.0.4)
Requirement already satisfied: joblib in c:\users\asif nawaz\anaconda3\lib\site-packages (from nltk) (1.1.1)
Requirement already satisfied: regex>=2021.8.3 in c:\users\asif nawaz\anaconda3\lib\site-packages (from nltk) (2022.7.9)
Requirement already satisfied: tqdm in c:\users\asif nawaz\anaconda3\lib\site-packages (from nltk) (4.64.1)
Requirement already satisfied: colorama in c:\users\asif nawaz\anaconda3\lib\site-packages (from click->nltk) (0.4.6)
Note: you may need to restart the kernel to use updated packages.
```

In [2]: `import nltk`
`from nltk.chat.util import Chat, reflections`
`nltk.download('punkt')`

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

Out[2]: `True`

In [3]: *# Define a list of patterns and responses*
`patterns = [`
 `(r'hello|hi|hey', ['Hello!', 'Hi there!', 'Hey!']),`
 `(r'how are you', ['I am doing well, thank you!', 'I am just a computer program, so']),`
 `(r'what is your name', ['I am a chatbot.', 'You can call me ChatBot Friend.']),`
 `(r'bye|goodbye', ['Goodbye!', 'Have a great day!', 'See you later!']),`
`]`

Define reflections to transform first person to second person
`my_reflections = {`
 `'i': 'you',`
 `'me': 'you',`
 `'my': 'your',`
 `'mine': 'yours',`
 `'am': 'are'`
`}`

In []: *# Create a chatbot instance*
`chatbot = Chat(patterns, reflections)`

Start the conversation
`print("Hello! I'm your chatbot. You can type 'bye' to exit.")`
`chatbot.converse()`

Hello! I'm your chatbot. You can type 'bye' to exit.

>Hellow

Hey!

>how are you

I am doing well, thank you!

>what is your name

I am a chatbot.

>bye

Have a great day!

In []: