

```
import nltk

from nltk.chat.util import Chat, reflections

# Download required package (run once)
nltk.download('punkt')

# Define patterns and responses
pairs = [
    [r"hi|hello", ["Hello! How can I help you?"]],
    [r"how are you ?", ["I'm fine. What about you?"]],
    [r"what is ai ?", ["AI means Artificial Intelligence."]],
    [r"bye", ["Goodbye! Have a nice day."]],
]

# Create chatbot
chatbot = Chat(pairs, reflections)

print("AI Chatbot (type 'bye' to exit)")

chatbot.converse()
```