

```
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()
```