Simple Chat Bot

In[5]:

Pip installnltk

Requirementalreadysatisfied:nltkinc:\users\pshiv\appdata\local\programs\python

\python313\lib\site-packages(3.9.1)

Requirementalreadysatisfied:clickinc:\users\pshiv\appdata\local\programs\python

\python313\lib\site-packages(fromnltk)(8.1.8)

Requirementalreadysatisfied:joblibinc:\users\pshiv\appdata\local\programs\python\python313\lib\site-packages(fromnltk)(1.4.2)

Requirementalreadysatisfied:regex>=2021.8.3inc:\users\pshiv\appdata\local\programs\python\python313\lib\site-packages(fromnltk)(2024.11.6)

Requirementalreadysatisfied:tqdminc:\users\pshiv\appdata\local\programs\python

\python313\lib\site-packages(fromnltk)(4.67.1)

Requirementalreadysatisfied:coloramainc:\users\pshiv\appdata\local\programs\python\python313\lib\site-packages(fromclick->nltk)(0.4.6)

Note:youmayneedtorestartthekerneltouseupdatedpackages.

[notice]Anewreleaseofpipisavailable:24.2->25.0.1

[notice]Toupdate,run:python.exe-mpipinstall--upgradepip

In[2]:

**import**nltk

**from**nltk.chat.util**import**Chat,reflections

**import**tkinter**as**tk

**from**tkinter**import**scrolledtext

*#Definechatbotresponsesusingpairs*

pairs**=**[

[r"hi|hello|hey",["Hello!HowcanIassistyoutoday?","Hithere!HowcanIh[r"howareyou?",["I'mjustabot,butI'mdoingfine!Howaboutyou?","I'ma[r"(.\*)yourname?",["I'machatbot,heretoassistyou."]],

[r"bye|goodbye", ["Goodbye! Have a great day!", "Bye! Take care!"]],[r"(.\*)",["I'mnotsurehowtorespondtothat.Couldyourephrase?"]]

]

*#Createchatbot*

chatbot**=**Chat(pairs,reflections)

**def**send\_message():

user\_input**=**user\_entry**.**get()

chat\_history**.**insert(tk**.**END,f"You:{user\_input}\n")response**=**chatbot**.**respond(user\_input)

chat\_history**.**insert(tk**.**END,f"Bot:{response}\n\n")user\_entry**.**delete(0,tk**.**END)

*#GUIsetup*

root**=**tk**.**Tk()

root**.**title("SimpleChatbot")

chat\_history**=**scrolledtext**.**ScrolledText(root,wrap**=**tk**.**WORD,width**=**50,height**=**15)chat\_history**.**pack(padx**=**10,pady**=**10)

user\_entry**=**tk**.**Entry(root,width**=**40)user\_entry**.**pack(padx**=**10,pady**=**5)

send\_button**=**tk**.**Button(root,text**=**"Send",command**=**send\_message)send\_button**.**pack(pady**=**5)

root**.**mainloop()

In[]:

**Output**

