# **SOURCE CODE FOR CREATE A CHATBOT IN PYTHON**

**THE PROGRAM WAS EXECUTED BY USING JUPYTER NOTEPAD:**

import nltk

from nltk.chat.util import Chat, reflections

# Define some pattern-response pairs

pairs = [

[

r"hi|hello|hey",

["Hello!", "Hi there!", "Hey! How can I help you today?"]

],

[

r"what is your name?",

["I'm just a simple chatbot.", "I don't have a name. You can call me Chatbot."]

],

[

r"how are you?",

["I'm just a computer program, so I don't have feelings, but I'm here to assist you."]

],

[

r"(.\*) your name",

["My name is Chatbot.", "You can call me Chatbot."]

],

[

r"(.\*) help (.\*)",

["I'm here to help. What do you need assistance with?"]

],

[

r"(.\*) programming language is the best",

["The best programming language depends on your goals. Python is great for beginners, while C++ is powerful for system-level programming. It's important to choose the one that suits your project."]

],

[

r"tell me a fun fact",

["Sure! Did you know that honey never spoils? Archaeologists have found pots of honey in ancient Egyptian tombs that are over 3,000 years old and still perfectly edible."]

],

[

r"who are you?",

["I'm Chatbot, your virtual assistant. How can I assist you today?"]

],

[

r"(.\*) how old are you",

["I don't have an age because I'm just a computer program."]

],

[

r"what is the meaning of life?",

["The meaning of life is a deep philosophical question that has been pondered for centuries. It's a topic with various interpretations. What are your thoughts on it?"]

],

[

r"(.\*) programming language is the best",

["The best programming language depends on your goals. Python is great for beginners, while C++ is powerful for system-level programming. It's important to choose the one that suits your project."]

],

[

r"what can you do?",

["I can answer questions, tell jokes, provide information, and engage in conversation with you. How can I assist you today?"]

],

[

r"(.\*) recommend (.\*)",

["I recommend trying a new book, watching a movie, or going for a walk if you're looking for something to do."]

],

[

r"how does (.\*) work",

["Explaining how %1 works might be quite complex. Could you please specify what exactly you'd like to know about %1?"]

],

[

r"who is the first programmer in world?",

["first programmer in world is Ms.Ada Lovelace.","You can call me Chatbot."]

],

[

r"thanks",

["You're welcome! If you have any more questions or need assistance, feel free to ask."]

],

[

r"bye|quit",

["Goodbye!", "Have a great day!"]

]

]

# Create a Chat instance

chatbot = Chat (pairs, reflections)

# Start the conversation

print ("Hello! I'm your chatbot. Type 'bye' to exit.")

chatbot. Converse()

**OUTPUT:**

|  |
| --- |
| Hello! I'm your chatbot. Type 'bye' to exit. >hi Hello! >hello Hi there! >hey Hi there! >what is your name? I'm just a simple chatbot. >how are you? I'm just a computer program, so I don't have feelings, but I'm here to assist you. >(.\*) your name My name is Chatbot. >(.\*) help (.\*) I'm here to help. What do you need assistance with? >(.\*) programming language is the best The best programming language depends on your goals. Python is great for beginners, while C++ is powerful for system-level programming. It's important to choose the one that suits your project. >tell me a fun fact Sure! Did you know that honey never spoils? Archaeologists have found pots of honey in ancient Egyptian tombs that are over 3,000 years old and still perfectly edible. >who are you? I'm Chatbot, your virtual assistant. How can I assist you today? >(.\*) how old are you I don't have an age because I'm just a computer program. >what is the meaning of life? The meaning of life is a deep philosophical question that has been pondered for centuries. It's a topic with various interpretations. What are your thoughts on it? >(.\*) programming language is the best The best programming language depends on your goals. Python is great for beginners, while C++ is powerful for system-level programming. It's important to choose the one that suits your project. >what can you do? I can answer questions, tell jokes, provide information, and engage in conversation with you. How can I assist you today? >(.\*) recommend (.\*) I recommend trying a new book, watching a movie, or going for a walk if you're looking for something to do. >how does (.\*) work Explaining how (.\*) works might be quite complex. Could you please specify what exactly you'd like to know about (.\*)? >who is the first programmer in world? first programmer in world is Ms.Ada Lovelace. >thanks You're welcome! If you have any more questions or need assistance, feel free to ask. >bye Goodbye! >quit Have a great day! |