

Assignment no. – 9

Name – Sakshi Sanjay Jadhav

Roll no. – TCOA30

Chatbot

#rapidfuzz is used for finding match

from rapidfuzz import process, fuzz

cont = True

ques_List = []

ans_List = []

#scanning Q&A Text File

def extract_QA(filename):

 # Opening reply file, where Q&A are stored

 reply_file = open(filename, "r", encoding="utf-8")

 counter = 0

 ans = []

 ques = []

 global ques_List

 global ans_List

 # Extracting Question & Answer from file and storing it in required format

 for line in reply_file.readlines():

 # 0 ==> Question

 if counter == 0:

 ques_replaced_symbol = line.replace("\n", "")

 ques_replaced_symbol = ques_replaced_symbol.replace("'", "")

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    ques.append(ques_replaced_symbol)

    ques_List += ques

    counter = 1

# 1 ==> Answer
elif counter == 1:
    ans_replaced_symbol = line.replace("\n", "")
    ans_replaced_symbol = ans_replaced_symbol.replace("'", "")
    ans.append(ans_replaced_symbol)
    ans_List += ans
    counter = 0

# Resetting variables
ans = []
ques = []

extract_QA("q&a.txt")

print("\nWelcome, I'm LP-2 Chatbot. \n\nTo exit type 'quit'\n")
while (cont):
    user_input = input("You: ")

    if(user_input == "quit"):
        cont = False
    else:
        matching_ques = process.extractOne(user_input, ques_List,
scorer=fuzz.partial_token_sort_ratio, score_cutoff = 80)

        if(matching_ques == None):
            print("Chatbot: How may I help you?")
        else:
            match_index = ques_List.index(matching_ques[0])

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matching_ans = ans_List[match_index]

print("Chatbot: ",matching_ans)
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OUTPUT:

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PS C:\Users\User\OneDrive\Desktop\python try\LP2> python chatbot.py

Welcome, I'm LP-2 Chatbot.

To exit type 'quit'

You: hello
Chatbot: Hi
You: hi
Chatbot: Konnichiwa
You: how are you?
Chatbot: I'm fine. How are you?
You: who created you?
Chatbot: How may I help you?
You: what is your name?
Chatbot: My name is LP-2 Chatbot
You: what are you?
Chatbot: My name is LP-2 Chatbot
You: quit
PS C:\Users\User\OneDrive\Desktop\python try\LP2> █
```