import sounddevice as sd

import speech\_recognition as sr

from scipy.io.wavfile import write

import wavio as wv

import requests

from bs4 import BeautifulSoup

# Sampling frequency

freq = 44100

# Recording duration

duration = 5

# Start recorder with the given values

# of duration and sample frequency

recording = sd.rec(int(duration \* freq),

samplerate=freq, channels=2)

# Record audio for the given number of seconds

sd.wait()

# This will convert the NumPy array to an audio

# file with the given sampling frequency

write("recording0.wav", freq, recording)

# Convert the NumPy array to audio file

wv.write("recording1.wav", recording, freq, sampwidth=2)

r = sr.Recognizer()

file\_audio = sr.AudioFile('recording1.wav')

with file\_audio as source:

audio\_text = r.record(source)

#print(type(audio\_text))

print(r.recognize\_google(audio\_text))

#r.recognize\_google(audio\_text)

text1 = r.recognize\_google(audio\_text)

print(text1)

hey= "Alexa"

if text1 == hey:

print("Hello Shriyash")

else:

print("Try again")

recording = sd.rec(int(duration \* freq),

samplerate=freq, channels=2)

# Record audio for the given number of seconds

sd.wait()

# This will convert the NumPy array to an audio

# file with the given sampling frequency

write("recording0.wav", freq, recording)

# Convert the NumPy array to audio file

wv.write("recording1.wav", recording, freq, sampwidth=2)

#say ur ques

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#r.recognize\_google(audio\_text)

text1 = r.recognize\_google(audio\_text)

print(text1)

hey= "weather"

if text1 == hey:

print("Which city do you want the weather data from?")

freq = 44100

# Recording duration

duration = 5

# Start recorder with the given values

# of duration and sample frequency

recording = sd.rec(int(duration \* freq),samplerate=freq, channels=2)

# Record audio for the given number of seconds

sd.wait()

# This will convert the NumPy array to an audio

# file with the given sampling frequency

write("recording2.wav", freq, recording)

# Convert the NumPy array to audio file

wv.write("recording3.wav", recording, freq, sampwidth=2)

r = sr.Recognizer()

file\_audio = sr.AudioFile('recording3.wav')

with file\_audio as source:

audio\_text = r.record(source)

#print(type(audio\_text))

print(r.recognize\_google(audio\_text))

#r.recognize\_google(audio\_text)

text1 = r.recognize\_google(audio\_text)

print(text1)

city = text1

print("Weather data from "+city)

# creating url and requests instance

url = "https://www.google.com/search?q="+"weather"+city

html = requests.get(url).content

# getting raw data

soup = BeautifulSoup(html, 'html.parser')

temp = soup.find('div', attrs={'class': 'BNeawe iBp4i AP7Wnd'}).text

str = soup.find('div', attrs={'class': 'BNeawe tAd8D AP7Wnd'}).text

# formatting data

data = str.split('\n')

time = data[0]

sky = data[1]

# getting all div tag

listdiv = soup.findAll('div', attrs={'class': 'BNeawe s3v9rd AP7Wnd'})

strd = listdiv[5].text

# getting other required data

pos = strd.find('Wind')

other\_data = strd[pos:]

# printing all data

print("Temperature is", temp)

print("Time: ", time)

print("Sky Description: ", sky)

# print(other\_data)

else:

print("Try again")