from platform import uname

import time

import pyttsx3 # pip install pyttsx3

import speech\_recognition as sr # pip install speechRecognition, pip install pipwin & pipwin install pyaudio

import datetime # pip install datetime

import wikipedia # pip install wikipedia

import webbrowser

import os

import smtplib

import pyjokes # pip install pyjokes

# initialises the pyttsx3 modules

# Microsoft Speech API (SAPI5) is the technology for voice recognition & synthesis, provided by Microsoft

engine = pyttsx3.init('sapi5')

# it'll get the voice property frm the pyttsx3 module

voices = engine.getProperty('voices')

# it'll get list of voices & v can select 1 which v lyk

# voices[0].id -> Male voice

# voices[1].id -> Female voice

engine.setProperty('voice', voices[0].id)

# now vll set the voice speed

# by default it will b 200 words per min

engine.setProperty('rate', 190) # 190 words per min

ass\_name = "Jarvis"

def speak(audio):

engine.say(audio) # convert the written text in2 speach

engine.runAndWait() # pauses the program till the say function is done wyt speaking

def wishMe():

speak("Welcome back!")

hour = int(datetime.datetime.now().hour)

if hour >= 2 and hour < 12:

speak("Good Morning!")

elif hour >= 12 and hour < 17:

speak("Good Afternoon!")

elif hour >= 17 and hour < 23:

speak("Good Evening!")

else:

speak("Good Night!")

speak("I'm your Assistant")

speak(ass\_name)

speak("AI at your service")

def takeCommand():

# It takes microphone input frm the user & returns string output

r = sr.Recognizer() # v r initializing the Recognizer in the r variable

with sr.Microphone() as source: # get input frm the user frm the microphone, it will our source for our input

print("Listening...")

speak("Listening...")

r.pause\_threshold = 2 # it will wait for 2 sec before it strt 2 listen

audio = r.listen(source) # microphone will listen 2 our audio, v hv passed source variable in listen function

try:

print("Recognizing...")

query = r.recognize\_google(audio, language = 'en-in')

print(f"User said: {query}\n")

except Exception as e:

# print(e)

print("Could not understand audio...")

speak("Could not understand audio...")

print("Say that again please...")

speak("Say that again please...")

return "None"

return query

def sendEmail(to, content):

server = smtplib.SMTP('smtp.gmail.com', 587)

server.ehlo()

server.starttls()

# enable low security in gmail

server.login('your emai id', 'your email password')

server.sendmail('your email id', to, content)

server.close()

if \_\_name\_\_ == "\_\_main\_\_":

wishMe()

print('What should I call you ?')

speak('What should I call you ?')

uname = takeCommand()

print('Welcome', uname)

speak('Welcome')

speak(uname)

speak('Please tell me how may I help you')

while True:

# if 1:

query = takeCommand().lower()

# logic for executing tasks based on query

if 'wikipedia' in query:

print('Searching Wikipedia...')

speak('Searching Wikipedia...')

results = wikipedia.summary(query.replace("wikipedia", ""), sentences = 2)

speak("According to Wikipedia")

print(results)

speak(results)

elif 'open youtube' in query:

print('Here you go to YouTube\n')

speak('Here you go to YouTube\n')

webbrowser.open("youtube.com")

elif 'open google' in query:

print('Here you go Google\n')

speak('Here you go Google\n')

webbrowser.open("google.com")

elif 'open stackoverflow' in query:

print('Here you go Stackoverflow\n')

speak('Here you go Stackoverflow\n')

webbrowser.open("stackoverflow.com")

elif 'open github' in query:

print('Here you go Github\n')

speak('Here you go Github\n')

webbrowser.open("github.com")

elif 'open dev community' in query:

print('Here you go Dev Community\n')

speak('Here you go Dev Commmunity\n')

webbrowser.open("dev.to")

elif 'open kaggle' in query:

print('Here you go Dev Kaggle\n')

speak('Here you go Dev Kaggle\n')

webbrowser.open("kaggle.com")

elif 'open protonmail' in query:

print('Here you go Proton Mail\n')

speak('Here you go Proton Mail\n')

webbrowser.open("mail.protonmail.com")

elif 'open brave' in query:

print('Here you go Brave Browser\n')

speak('Here you go Brave Browser\n')

codePath = "C:\\Program Files\\BraveSoftware\\Brave-Browser\\Application\\brave.exe" # ur brave browser directory

os.startfile(codePath)

elif 'open firefox' in query:

print('Here you go Firefox Browser\n')

speak('Here you go Firefox Browser\n')

codePath = r"C:\\Program Files\\Mozilla Firefox\\firefox.exe" # ur firefox browser directory

os.startfile(codePath)

elif 'open chrome' in query:

print('Here you go Chrome Browser\n')

speak('Here you go Chrome Browser\n')

codePath = r"C:\\ProgramData\\Microsoft\\Windows\\Start Menu\\Programs\\Google Chrome.lnk" # ur chrome browser directory

os.startfile(codePath)

elif 'open whatsapp' in query:

print('Here you go WhatsApp\n')

speak('Here you go WhatsApp\n')

codePath = r"C:\\Users\\Rahul\\AppData\\Roaming\\Microsoft\\Windows\\Start Menu\\Programs\\WhatsApp\\WhatsApp.lnk" # ur whatsapp directory

os.startfile(codePath)

elif 'open telegram' in query:

print('Here you go Telegram\n')

speak('Here you go Telegram\n')

codePath = r"C:\\Users\\Rahul\\AppData\\Roaming\\Microsoft\\Windows\\Start Menu\\Programs\\Telegram Desktop\\Telegram.lnk" # ur telegram directory

os.startfile(codePath)

elif 'open jetbrains toolbox' in query:

print('Here you go Jetbrains Toolbox\n')

speak('Here you go Jetbrains Toolbox\n')

codePath = r"C:\\Users\\Rahul\\AppData\\Roaming\\Microsoft\\Windows\\Start Menu\\Programs\\JetBrains Toolbox\\JetBrains Toolbox.lnk" # ur jetbrains toolbox directory

os.startfile(codePath)

elif 'open vs code' in query or 'visual studio code' in query:

print('Here you go VS Code\n')

speak('Here you go VS Code\n')

codePath = r"C:\\Users\\Rahul\\AppData\\Roaming\\Microsoft\\Windows\\Start Menu\\Programs\\Visual Studio Code\\Visual Studio Code.lnk" # ur vs code directory

os.startfile(codePath)

elif 'open code' in query:

print('Here you go Project Code\n')

speak('Here you go Project Code\n')

codePath = r"D:\\Projects\\Python Projects\\Voice\_Assistant.py" # ur project directory

os.startfile(codePath)

elif 'play music' in query:

music\_dir = 'D:\\Non Critical\\songs\\Favorite Songs2' # ur music directory

songs = os.listdir(music\_dir)

print(songs)

os.startfile(os.path.join(music\_dir, songs[0]))

elif 'send a mail to' in query:

try:

speak("What should I say ?")

content = takeCommand()

speak("whom should i send")

to = input()

sendEmail(to, content)

speak("Email has been sent!")

except Exception as e:

print(e)

speak("Sorry my friend, I'm not able to send this email")

elif 'the time' in query:

strTime = datetime.datetime.now().strftime("%H:%M:%S")

speak(f"Sir, the time now is {strTime}")

elif 'how are you' in query:

print("I'm fine, Thank you")

speak("I'm fine, Thank you")

print("How are you,", uname)

speak("How are you,")

speak(uname)

elif 'fine' in query or 'good' in query:

print("It's good to know that you are fine")

speak("It's good to know that you are fine")

elif 'who i am' in query or 'who am i' in query:

print('If you talk then definitely your human and your name is', uname)

speak('If you talk then definitely your human and your name is')

speak(uname)

elif 'change my name' in query:

speak('What would you like me to call you ?')

print('What would you like me to call you ?')

uname = takeCommand()

speak('Your name is changed to')

speak(uname)

print('Your name is changed to', uname)

elif 'change your name' in query:

print('What would you like to call me,', uname)

speak('What would you like to call me,')

speak(uname)

ass\_name = takeCommand()

print('Thanks for naming me as', ass\_name)

speak('Thanks for naming me as')

speak(ass\_name)

elif "what's your name" in query or 'what is your name' in query:

print('My friends call me', ass\_name)

speak('My friends call me')

speak(ass\_name)

elif 'what is my name' in query or "what's my name" in query:

print("Your name is ", uname)

speak('Your name is')

speak(uname)

elif 'who made you' in query or 'who created you' in query:

print('I have been created by Rahul')

speak('I have been created by Rahul')

elif 'exit' in query or 'quit' in query:

print('Thanks', uname,'for giving me your time')

speak('Thanks')

speak(uname)

speak('for giving me your time')

exit()

elif 'joke' in query:

speak(pyjokes.get\_joke())

elif 'why you came to earth' in query or 'why did you come to earth' in query:

print("Thanks to Rahul, further It's a secret")

speak("Thanks to Rahul, further It's a secret")

elif 'why have you been created' in query or 'reason for you' in query or 'reason for your creation' in query:

print('I was created as a project by Mister Rahul')

speak('I was created as a project by Mister Rahul')

elif 'where is' in query:

location = query.replace('where is', '')

print(uname, 'asked to locate', location)

speak(uname)

speak('asked to locate')

speak(location)

webbrowser.open("https://www.google.nl/maps/place/" + location + "")

elif "write a note" in query:

print('What should I write', uname)

speak('What should I write')

speak(uname)

note = takeCommand()

file = open('jarvis.txt', 'w')

print(uname, 'Should I include date and time')

speak(uname)

speak("Should I include date and time")

snfm = takeCommand()

if 'yes' in snfm or 'sure' in snfm or 'ok' in snfm:

strTime = datetime.datetime.now().strftime("%H:%M:%S")

file.write(strTime)

file.write(" :- ")

file.write(note)

else:

file.write(note)

elif "show note" in query or 'open note' in query:

print("Showing Notes")

speak("Showing Notes")

file = open("jarvis.txt", "r")

print(file.read())

speak(file.read(6))

elif "don't listen" in query or "stop listening" in query:

speak("for how much time you want to stop jarvis from listening commands")

sleep\_time = int(takeCommand())

time.sleep(sleep\_time)

print(sleep\_time)

# most asked question frm google Assistant

elif "will you be my gf" in query or "will you be my bf" in query:

print("I'm not sure about, may be you should give me some time")

speak("I'm not sure about, may be you should give me some time")

elif "i love you" in query:

print("It's hard to understand")

speak("It's hard to understand")

# elif "" in query:

# command go here

# for adding more commands