#Jarvis A.I. made by Samarth  
import os  
import pyttsx3  
import speech\_recognition as sr  
import datetime  
import wikipedia  
import webbrowser  
import random  
  
engine = pyttsx3.init('sapi5')  
voices = engine.getProperty('voices')  
#print(voices[1].id)  
engine.setProperty('voice',voices[1].id)  
  
#Jarvis A.I. made by Samarth  
def generate\_ran\_password(length):  
 characters="abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ123456789!@#$%^&\*()\_~-=+:;'<>,./?"  
 password=" "  
 for i in range(length):  
 password+=random.choice(characters)  
 return password  
  
def speak(audio):  
 engine.say(audio)  
 engine.runAndWait()  
  
def wish\_me():  
 hour=int(datetime.datetime.now().hour)  
 if hour>=0 and hour<12:  
 speak("Good Morning Sir")  
  
 elif hour>=12 and hour<18:  
 speak("Good Afternoon Sir")  
  
 else:  
 speak("Good Evening Sir")  
  
 speak("I am Jarvis your own A.I. personal voice assistant. Please tell me how may I help you?")  
  
def take\_command():  
  
#It takes microphone input from the user and returns the output in string form  
 r = sr.Recognizer()  
 with sr.Microphone() as source:  
 print("Listening.........")  
 r.pause\_threshold = 1  
 audio=r.listen(source)  
  
 try:  
 print("Recognizing.........")  
 query = r.recognize\_google(audio,language='en-in')  
 print(f"User said: {query}\n")  
  
 except Exception as e:  
 #print(e)  
  
 #speak("Please say that again couldn't hear you properly ")  
 print("Please say that again")  
 return "None"  
 return query  
  
  
#def send\_email(to,content):  
 #server=smptlib.SMPT('smntp.gmail.com',587)  
  
if \_\_name\_\_=='\_\_main\_\_':  
#speak("Hi! I am Jarvis A.I. developed by Samarth")  
 wish\_me()  
  
 while True:  
 query = take\_command().lower()  
 if "wikipedia" in query:  
 speak("Searching Wikipedia.....")  
 query = query.replace("wikipedia","")  
 results = wikipedia.summary(query,sentences=4)  
 speak("According to Wikipedia")  
 print(results)  
 speak(results)  
  
 elif 'jarvis open youtube' in query:  
 webbrowser.open("https://youtube.com")  
 speak("Yes Sir opening Youtube")  
  
 elif 'jarvis open google' in query:  
 webbrowser.open("google.com")  
 speak("Yes Sir opening Google")  
  
 elif 'jarvis open gmail' in query:  
 webbrowser.open("https://mail.google.com/mail/u/0/#inbox")  
 speak("Yes Sir opening Gmail")  
  
 elif 'jarvis open instagram' in query:  
 webbrowser.open("https://www.instagram.com/")  
 speak("Yes Sir opening Instagram")  
  
 elif 'jarvis open whatsapp' in query:  
 webbrowser.open("https://web.whatsapp.com/")  
 speak("Yes Sir opening Whatsapp")  
  
 #elif 'open cmd' in query:  
 #webbrowser.open("%windir%\\system32\\cmd.exe")  
  
 elif 'jarvis open drive' in query:  
 webbrowser.open("https://drive.google.com/drive/my-drive")  
 speak("Yes Sir opening Google Drive")  
  
 elif 'open spotify' in query:  
 webbrowser.open("https://open.spotify.com/")  
 speak("Yes Sir opening Spotify")  
  
 elif 'jarvis open linkedin' in query:  
 webbrowser.open("https://www.linkedin.com/feed/")  
 speak("Yes Sir opening Linkedin")  
  
 #elif 'open chat GPT' in query:  
 #webbrowser.open("https://chat.openai.com/")  
  
 elif 'jarvis open coursera' in query:  
 webbrowser.open("https://www.coursera.org/")  
  
 #elif 'open AI' in query:  
 #webbrowser.open("https://bard.google.com/")  
  
 elif 'jarvis open classroom' in query:  
 webbrowser.open("https://classroom.google.com/")  
 speak("Yes Sir opening Google Classroom")  
  
 elif 'jarvis open chrome' in query:  
 code\_path = "C:\\Program Files\\Google\\Chrome\\Application\\chrome.exe"  
 os.startfile(code\_path)  
 speak("Yes Sir opening Google Chrome")  
  
 elif 'time' in query:  
 strTime = datetime.datetime.now().strftime("%H:%M:%S")  
 speak(f"Sir, the time is {strTime}")  
  
 elif 'jarvis open vs code' in query:  
 code\_path = "C:\\Users\\HP\\Downloads\\HP Downloads\\Microsoft VS Code\\Code.exe"  
 os.startfile(code\_path)  
 speak("Yes Sir opening VS code")  
  
 elif 'jarvis open pycharm' in query:  
 code\_path = "C:\\Program Files\\JetBrains\\PyCharm Community Edition 2023.1.4\\bin\\pycharm64.exe"  
 os.startfile(code\_path)  
 speak("Yes Sir opening Pycharm")  
  
 elif 'jarvis who are you' in query:  
 speak("I am Jarvis A.I. a personal voice assistant developed by Samarth")  
  
 elif 'jarvis open zoom' in query:  
 code\_path = "C:\\Users\\HP\\AppData\\Roaming\\Zoom\\bin\\Zoom.exe"  
 os.startfile(code\_path)  
 speak("Yes Sir opening Zoom Video Confrencing")  
  
 elif 'jarvis generate a random password' in query:  
 if \_\_name\_\_ == "\_\_main\_\_":  
 password = generate\_ran\_password(14)  
 print("The length of the password is:", len(password))  
 print("Your randomly generated password is:", password)  
 speak("Your password has been generated")  
  
  
 #elif 'email to samarth' in query:  
 #try:  
 #speak("What should I write in the email. Sir?")  
 #content = take\_command()  
 #to = "samarthguha8@gmail.com"  
 #send\_email(to,content)  
 #speak("Sir the email has been sent!")  
 #except Exception as e:  
 #print(e)  
 #speak("Sorry the email could not be sent")  
  
  
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