import sys  
  
import pyttsx3  
import speech\_recognition as sr  
import datetime  
import os  
import cv2  
import random  
from requests import get  
import wikipedia  
import webbrowser  
import pywhatkit as kit  
import pyautogui as pg  
import time  
import keyboard as k  
import smtplib  
  
  
  
  
  
  
  
  
  
engine = pyttsx3.init('sapi5')  
voices = engine.getProperty('voices')  
print(voices[0].id)  
engine.setProperty('voices', voices[0].id)  
  
#text to speech  
def speak(audio):  
 engine.say(audio)  
 print(audio)  
 engine.runAndWait()  
  
#to convert voice into text  
def takecommand():  
 r = sr.Recognizer()  
 with sr.Microphone() as source:  
 print("listening...")  
 r.pause\_threshold = 1  
 audio = r.listen(source,timeout=1,phrase\_time\_limit=5)  
  
 try:  
 print("recognizing...")  
 query = r.recognize\_google(audio, language='en-in')  
 print(f"user said: {query}")  
  
 except Exception as e:  
 speak("say that again please...")  
 return "none"  
 return query  
  
#to wish  
def wish():  
 hour = int(datetime.datetime.now().hour)  
  
 if hour>=5 and hour<12:  
 speak("good morning sir")  
 elif hour==12:  
 speak("good noon sir")  
 elif hour>12 and hour<18:  
 speak("good afternoon sir")  
 elif hour>=18 and hour<21:  
 speak("good evening sir")  
 else:  
 speak("good night sir")  
 speak("i am jarvis. please tell me how can i help you")  
  
def sendMail(to,content):  
 server = smtplib.SMTP('smtp.gmail.com', 587)  
 server.ehlo()  
 server.starttls()  
 server.login('akashsamanta963@gmail.com', '2527472682as')  
 server.sendmail('akashsamanta963@gmail.com', to, content)  
 server.close()  
  
if \_\_name\_\_ == "\_\_main\_\_":  
 wish()  
 while True:  
 #if 1:  
  
 query = takecommand().lower()  
  
 #logic building for task  
  
 if "open notepad" in query:  
 apath = "C:\\Windows\\notepad.exe"  
 os.startfile(apath)  
  
 elif "open c program" in query:  
 bpath = "C:\\Program Files (x86)\\Dev-Cpp\\devcpp.exe"  
 os.startfile(bpath)  
  
 elif "open command prompt" in query:  
 os.system("start cmd")  
  
 elif "open camera" in query:  
 cap = cv2.VideoCapture(0)  
 while True:  
 ret, img = cap.read()  
 cv2.imshow('webcam', img)  
 k = cv2.waitKey(50)  
 if k==27:  
 break;  
 cap.release()  
 cv2.destroyAllWindows()  
  
 elif "play music" in query:  
 music\_dir = "C:\\Users\\akash\\Music"  
 songs = os.listdir(music\_dir)  
 rd = random.choice(songs)  
 os.startfile(os.path.join(music\_dir, rd))  
  
  
 elif "ip address" in query:  
 ip = get('https://api.ipify.org').text  
 speak(f"your ip address is {ip}")  
  
  
 elif "wikipedia" in query:  
 speak("searching wikipedia...")  
 query = query.replace("wikipedia","")  
 results = wikipedia.summary(query, sentences=2)  
 speak("according to wikipedia...")  
 speak(results)  
 # print(results)  
  
 elif "open youtube" in query:  
 webbrowser.open("www.youtube.com")  
  
  
 elif "open facebook" in query:  
 webbrowser.open("www.facebook.com")  
  
  
 elif "open github" in query:  
 webbrowser.open("www.github.com")  
  
  
 elif "search google" in query:  
 speak("sir, what should i search on google?")  
 cm = takecommand().lower()  
 webbrowser.open(f"{cm}")  
  
  
 elif "send message" in query:  
 speak("what is the message?")  
 mes = takecommand().lower()  
 kit.sendwhatmsg\_instantly("+917074340057", f"{mes}")  
 pg.click(1050, 950)  
 time.sleep(2)  
 k.press\_and\_release('enter')  
  
 elif "play song on youtube" in query:  
 speak("which song do i play?")  
 pl = takecommand().lower()  
 kit.playonyt(f"{pl}")  
  
 elif "send mail" in query:  
 try:  
 speak("what shoud i say?")  
 content = takecommand().lower()  
 to = "samantaakash002@gmail.com"  
 sendMail(to,content)  
 speak("email has been sent!")  
  
 except Exception as e:  
 print(e)  
 speak("sorry sir! the mail is not sent.")  
  
 elif "no thanks" in query:  
 speak("thanks for using me, sir! have a good day.")  
 sys.exit()  
  
 speak("sir, do you have any other work?")