import pyttsx3

import speech\_recognition as sr

import datetime

import wikipedia

import webbrowser

import os

import pywhatkit

import keyboard

import pyjokes

from googletrans import Translator

engine = pyttsx3.init('sapi5')

voices = engine.getProperty('voices')

#print(voices)

engine.setProperty('voices' , voices[1].id)

engine.setProperty('rate' , 180)

def speak(audio):

    engine.say(audio)

    print(audio)

    print("   ")

    engine.runAndWait()

def wishMe():

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

    if hour>=0 and hour<12:

        speak("Good morning")

    elif hour>=12 and hour<18:

        speak("Good afternoon")

    else:

        speak("Good evening")

    print()

    speak("I am Beastboy sir your assistant how may i help you")

def takeCommand():

    #It takes microphone input from the user and returns string output

    r = sr.Recognizer()

    with sr.Microphone() as source:

        print("Listening...")

        r.pause\_threshold = 0.5

        audio = r.listen(source)

    try:

        print("Recognizing...")

        query = r.recognize\_google(audio, language='en-in') #Using google for voice recognition.

        print(f"User said: {query}\n")  #User query will be printed.

    except Exception as e:

        # print(e)

        print("Say that again please...")   #Say that again will be printed in case of improper voice

        return "None" #None string will be returned

    return query

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

    wishMe()

    while True:

    #if 1:

        query = takeCommand().lower() #Converting user query into lower case

        if 'wikipedia' in query:  #if wikipedia found in the query then this block will be executed

            speak('Searching Wikipedia...')

            query = query.replace("wikipedia", "")

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

            speak("According to Wikipedia")

            speak(results)

        elif 'open youtube' in query:

            speak("okk sir")

            webbrowser.open("https://www.youtube.com/")

        elif 'open google' in query:

            speak("Sure sir")

            webbrowser.open("https://www.google.com/")

        elif 'python download' in query:

            speak("ok sir")

            webbrowser.open("https://www.python.org/downloads/")

        elif 'google search' in query:

            speak("Okk sir , this is what i found")

            query = query.replace("beast boy" , "")

            query = query.replace("beastboy" , "")

            query = query.replace("google search" , "")

            pywhatkit.search(query)

            speak("done sir")

        elif 'maps' in query:

            speak("opening google maps")

            webbrowser.open("https://maps.google.com/")

        elif 'stop' in query:

            keyboard.press('space bar')

        elif 'restart' in query:

             keyboard.press('0')

        elif 'mute' in query:

             keyboard.press('m')

        elif 'skip' in query:

             keyboard.press('m')

        elif 'back' in query:

            keyboard.press('j')

        elif 'full screen' in query:

            keyboard.press('f')

        elif 'file mode' in query:

            keyboard.press('t')

        elif 'smarty' in query:

            speak("opening youtube")

            webbrowser.open("https://www.youtube.com/c/YesSmartyPie/videos")

        elif 'ungraduate gamer' in query:

            speak("opening youtube")

            webbrowser.open("https://www.youtube.com/channel/UCgsWayzDGwj9CclwicO\_R3w/videos")

        elif 'beast boy shub' in query:

            speak("opening youtube")

            webbrowser.open("https://www.youtube.com/c/BeastBoyShub/videos")

        elif 'triggered insaan' in query:

            speak("opening youtube")

            webbrowser.open("https://www.youtube.com/c/TriggeredInsaan/videos")

        elif 'live insaan' in query:

            speak("opening youtube")

            webbrowser.open("https://www.youtube.com/c/LiveInsaan/videos")

        elif 'bulky star' in query:

            speak("opening youtube")

            webbrowser.open("https://www.youtube.com/c/BulkyStar/videos")

        elif 'memes' in query:

            speak("opening youtube")

            webbrowser.open("https://www.youtube.com/c/UltraXMEMES/videos")

        elif 'how are you' in query:

            speak("i am good sir")

        elif 'your name' in query:

            speak("my name is beast boy sir")

        elif 'time' in query:

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

            speak(f" sir the time is {strTime}")

        elif 'make you' in query:

            speak("sir you can see this video")

            webbrowser.open("https://www.youtube.com/watch?v=Lp9Ftuq2sVI")

        elif 'my name' in query:

            speak("i don't know sir")

        elif 'youtube search' in query:

            speak("okk sir, this is what i found")

            query = query.replace("beast boy","")

            query = query.replace("beastboy" , "")

            query = query.replace("youtube search","")

            web = 'https://www.youtube.com/results?search\_query=' + query

            speak("done sir")

            webbrowser.open(web)

        elif 'launch' in query:

            speak("tell me the name of the website sir")

            name2 = takeCommand()

            web3 = 'https://www.' + name2 + '.com'

            webbrowser.open(web3)

        elif 'music' in query:

            speak("which song do you want to listen sir")

            songs = takeCommand().lower()

 pywhatkit.playonyt(songs)

            speak("your song has been started sir enjoy")

        elif 'your creator' in query:

            print("My creator's name is Aayaan Kumar and he likes coding")

            speak("My creator's name is Aayaan Kumar and he likes coding")

        elif 'enter' in query:

            keyboard.press('enter')

        elif 'new window' in query:

            keyboard.press\_and\_release('ctrl + n')

        elif 'close this tab' in query:

            keyboard.press\_and\_release('ctrl + w')

        elif 'new tab' in query:

            keyboard.press\_and\_release('ctrl + t')

        elif 'show history' in query:

            keyboard.press\_and\_release('ctrl + h')

        elif 'joke' in query:

            get = pyjokes.get\_joke()

            engine.setProperty('rate' , 140)

            speak(get)

        elif 'meaning' in query:

            query = query.replace("what is the" , "")

            query = query.replace("meaning of" , "")

            query = query.replace("beastboy" , "")

            query = query.replace("beast boy" , "")

            mean = pywhatkit.search(query)

            speak("here you can see sir")

        elif 'website' in query:

            query = query.replace("beastboy" , "")

            query = query.replace("beast boy" , "")

            query = query.replace(" " , "")

            query = query.replace("website" , "")

            web4 = query.replace("open" , "")

            web5 = 'https://www.' + web4 + '.com'

            webbrowser.open(web5)

            speak("done sir")

        elif 'speak' in query:

            speak("of course sir, what do you want me to speak")

            sent = takeCommand().lower()

            speak(sent)

        elif 'bye' in query:

            speak("okk sir, you can call me anytime by just saying are you there beastboy")

            break