import pyttsx3 # text to speech module

import speech\_recognition as sr # converts audio into text

import datetime # shows date , time

import pywhatkit # play youtube videos

import calendar # allows us to get day of a week

import wikipedia # for searching wikipedia information

import webbrowser # opens any webbrowser

import os # allows us to interact with operating system

print("Initializing Jarvis")

MASTER = 'Aditi'

engine = pyttsx3.init('sapi5')

#helps us to set the speed at which our assistants would speak when we assign sentences or words.

engine.setProperty('rate', 180)

engine.setProperty('volume', 0.9) # change the default volume

voices = engine.getProperty('voices') # getter method(gets the current value of engine property)

engine.setProperty('voice', voices[1].id) # setter method .[0]=male voice and [1]=female voice in set Property.

# speak method will help us in taking the voice from the machine.

def speak(text):

engine.say(text) # Method for the speaking of the the assistant

engine.runAndWait() # Blocks while processing all the currently queued commands

speak('Initializing Jarvis...')

# This function will greet you as per the current time.

def wishMe():

hour = datetime.datetime.now().hour

if hour >= 0 and hour < 12:

speak("Good Morning" + ' ' + MASTER)

print("Good Morning" + ' ' + MASTER)

elif hour >= 12 and hour < 18:

speak("Good Afternoon" + ' ' + MASTER)

print("Good Afternoon" + ' ' + MASTER)

else:

speak("Good Evening" + ' ' + MASTER)

print("Good Evening" + ' ' + MASTER)

speak('I am your jarvis')

print('I am your jarvis')

speak('What can I do for you?')

print('What can I do for you?')

# this method is for taking the commands

# and recognizing the command from the

# speech\_Recognition module we will use

# the 'recongizer' method for recognizing

def takeCommand():

r = sr.Recognizer() # from the speech\_Recognition module we will use the Microphone module for listening the command

with sr.Microphone() as source:

print("Listening...")

audio = r.listen(source)

# Now we will be using the try and catch

# method so that if sound is recognized

# it is good else we will have exception

# handling

try:

print("Recognizing...")

query = r.recognize\_google(audio, language='en-in') # for Listening the command in indian english

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

except Exception as e:

print("Please say that again")

speak("Please say that again")

query = None

return query

# Main program starts here

wishMe()

# This method will check for the condition.

# If the condition is true it will return output.

# We can add any number if conditions for it and if the condition satisfy we will get the desired output.

def Take\_query():

# This loop is infinite as it will take

# our queries continuously until and unless

# we do not say bye to exit or terminate

# the program

while(True):

# taking the query and making it into

# lower case so that most of the times

# query matches and we get the perfect

# output

query = takeCommand().lower()

if "tell me about" in query:

# if any one wants to have a information

# from wikipedia

print("searching wikipedia...")

speak("searching wikipedia...")

query = query.replace("tell me about", "")

# it will give the summary of 2 lines from

# wikipedia we can increase and decrease

# it also.

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

print(results)

speak(results)

elif 'open youtube' in query:

url = "youtube.com"

chrome\_path = 'C:/Users/Shree/AppData/Local/Google/Chrome/Application/chrome.exe %s'

# in the open method we just to give the link

# of the website and it automatically open

# it in your default browser

webbrowser.get(chrome\_path).open(url)

elif 'play music' in query: # this will play the songs present in your os

songs\_dir = 'F:\my songs'

songs = os.listdir(songs\_dir)

# print(songs)

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

elif 'time' in query: # this is for getting current time

time = datetime.datetime.now().strftime('%I:%M %p')

print('Current time is:' + ' ' + time)

speak('Current time is:' + ' ' + time)

elif 'date' in query: # this is for getting current date

now = datetime.datetime.now()

my\_date = datetime.datetime.today()

weekday = calendar.day\_name[my\_date.weekday()] # e.g. Monday

monthNum = now.month

dayNum = now.day

month\_names = ['January', 'February', 'March', 'April', 'May',

'June', 'July', 'August', 'September', 'October', 'November',

'December']

ordinalNumbers = ['1st', '2nd', '3rd', '4th', '5th', '6th',

'7th', '8th', '9th', '10th', '11th', '12th',

'13th', '14th', '15th', '16th', '17th',

'18th', '19th', '20th', '21st', '22nd',

'23rd', '24th', '25th', '26th', '27th',

'28th', '29th', '30th', '31st']

print('Today is ' + weekday + ' ' + month\_names[monthNum - 1] + ' the ' + ordinalNumbers[dayNum - 1] + Year + '.')

speak('Today is ' + weekday + ' ' +month\_names[monthNum - 1] + ' the ' + ordinalNumbers[dayNum - 1] + Year + '.')

elif 'play' in query: # for playing videos

song = query.replace('play', '')

speak('playing ' + song)

pywhatkit.playonyt(song) # play videos on youtube

# This will exit and terminate the program.

elif "bye" or "see you later" in query:

print("Bye. Have a nice day.")

speak("Bye. Have a nice day.")

exit()

if \_\_name\_\_ == '\_\_main\_\_':

# main method for executing

# the functions

Take\_query()