PYTHON CODE

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import speech_recognition as sr

import pyttsx3

import datetime

import wikipedia

import webbrowser

import os

import time

import subprocess

from ecapture import ecapture as ec

import wolframalpha

import json

import requests

engine=pyttsx3.init('sapi5')

voices=engine.getProperty('voices')

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

def speak(text):

    engine.say(text)

    engine.runAndWait()

def wishMe():

    hour=datetime.datetime.now().hour

    if hour>=0 and hour<12:
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        speak("Hello,Good Morning")
        print("Hello,Good Morning")
    elif hour>=12 and hour<18:
        speak("Hello,Good Afternoon")
        print("Hello,Good Afternoon")
    else:
        speak("Hello,Good Evening")
        print("Hello,Good Evening")
def takeCommand():
    r=sr.Recognizer()
    with sr.Microphone() as source:
        print("Listening...")
        audio=r.listen(source)

        try:
            statement=r.recognize_google(audio,language='en-in')
            print(f"user said:{statement}\n")

        except Exception as e:
            speak("Pardon me, please say that again")
            return "None"
        return statement
```

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print("Loading your AI personal assistant G-One")

speak("Loading your AI personal assistant G-One")

wishMe()

if __name__=='__main__':




    while True:

        speak("Tell me how can I help you now?")

        statement = takeCommand().lower()

        if statement==0:

            continue

        if "good bye" in statement or "ok bye" in statement or
"stop" in statement:

            speak('your personal assistant G-one is shutting
down,Good bye')

            print('your personal assistant G-one is shutting
down,Good bye')

            break

       if 'wikipedia' in statement:

            speak('Searching Wikipedia...')

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

            results = wikipedia.summary(statement, sentences=3)

            speak("According to Wikipedia")

            print(results)
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            speak(results)
elif 'open youtube' in statement:
            webbrowser.open_new_tab("https://www.youtube.com")
            speak("youtube is open now")
            time.sleep(5)


        elif 'open google' in statement:
            webbrowser.open_new_tab("https://www.google.com")
            speak("Google chrome is open now")
            time.sleep(5)


        elif 'open gmail' in statement:
            webbrowser.open_new_tab("gmail.com")
            speak("Google Mail open now")
            time.sleep(5)
        elif 'time' in statement:
            strTime=datetime.datetime.now().strftime("%H:%M:%S")
            speak(f"the time is {strTime}")
        elif 'news' in statement:
            news =
webbrowser.open_new_tab("https://timesofindia.indiatimes.com/home
/headlines”)
            speak('Here are some headlines from the Times of
India,Happy reading')
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            time.sleep(6)



        elif "camera" in statement or "take a photo" in
statement:

            ec.capture(0,"robo camera","img.jpg")

        elif 'search'  in statement:

            statement = statement.replace("search", "")

            webbrowser.open_new_tab(statement)

            time.sleep(5)

       elif 'ask' in statement:

            speak('I can answer to computational and geographical
questions  and what question do you want to ask now')

            question=takeCommand()

            app_id="Paste your unique ID here "

            client = wolframalpha.Client('R2K75H-7ELALHR35X')

            res = client.query(question)

            answer = next(res.results).text

            speak(answer)

            print(answer)

       elif 'who are you' in statement or 'what can you do' in
statement:

            speak('I am G-one version 1 point O your personal
assistant. I am programmed to minor tasks like'

                  'opening youtube,google chrome, gmail and
stackoverflow ,predict time,take a photo,search wikipedia,predict
weather'
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                  'In different cities, get top headline news
from times of india and you can ask me computational or
geographical questions too!')




        elif "who made you" in statement or "who created you" in
statement or "who discovered you" in statement:

            speak("I was built by Mirthula")

            print("I was built by Mirthula")

elif "weather" in statement:

            api_key="Apply your unique ID"


base_url="https://api.openweathermap.org/data/2.5/weather?"

            speak("what is the city name")

            city_name=takeCommand()


complete_url=base_url+"appid="+api_key+"&q="+city_name

            response = requests.get(complete_url)

            x=response.json()

            if x["cod"]!="404":

                y=x["main"]

                current_temperature = y["temp"]

                current_humidiy = y["humidity"]

                z = x["weather"]

                weather_description = z[0]["description"]
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                speak(" Temperature in kelvin unit is " +
                      str(current_temperature) +
                      "\n humidity in percentage is " +
                      str(current_humidiy) +
                      "\n description  " +
                      str(weather_description))
                print(" Temperature in kelvin unit = " +
                      str(current_temperature) +
                      "\n humidity (in percentage) = " +
                      str(current_humidiy) +
                      "\n description = " +
                      str(weather_description))
            elif "log off" in statement or "sign out" in
statement:
            speak("Ok , your pc will log off in 10 sec make sure
you exit from all applications")
            subprocess.call(["shutdown", "/l"])
```