In [1]:

```
import os
import time
import subprocess
import json
```

In [2]:

```
import wolframalpha
import requests
import webbrowser
import wikipedia
import datetime
```

In [3]:

```
import speech_recognition as sr
import pyttsx3
```

In [4]:

```
print('LOADING YOUR A.I PERSONAL ASSISTANT JARVIS')
```

```
LOADING YOUR A.I PERSONAL ASSISTANT JARVIS
```

In [5]:

```
engine = pyttsx3.init()
voices = engine.getProperty('voices')
engine.setProperty("voice",'voices[0].id')
```

In [6]:

```
def speak(text):
    engine.say(text)
    engine.runAndWait()
```

In [7]:

```
def wishMe():
    hour = datetime.datetime.now().hour
    if hour >= 0 and hour < 12:
        speak("hello, good morning Ms.Mayuri")
        print("hello, good morning Ms.Mayuri")
    elif hour >=12 and hour <=18:
        speak("hello, good afternoon Ms.Mayuri")
        print("hello, good afternoon Ms.Mayuri")
    else:
        speak("Its already the night time better go to sleep")
        print("Its already the night time better go to sleep")
```

In [8]:

```
def takeCommand():
    r = sr.Recognizer()
    with sr.Microphone() as source:
        print("i am 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
```

In [9]:

```
speak("LOADING YOUR PERSONAL A.I ASSISTANT JARVIS")
wishMe()
```

```
hello, good afternoon Ms.Mayuri
```

In [10]:

```
if __name__=='__main__':
    while True:
        speak("how can i help you?")
        statement = takeCommand().lower()
        if statement == 0:
            continue
        if "good bye" in statement or "ok bye" in statement or "stop" in stateme
nt:
            speak("Your personal AI assistant JARVIS in shutting down, Good bye
 ")
            print("Your personal AI assistant JARVIS in 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)
            speak(results)

        elif "open youtube" in statement:
            webbrowser.open_new_tab("https://www.youtube.com")
            speak("youtube is open for you")
            time.sleep(5)

        elif "open google" in statement:
            webbrowser.open_new_tab("https://www.google.com")
            speak("Google search is open for you")
            time.sleep(5)

        elif "open gmail" in statement:
            webbrowser.open_new_tab("gmail.com")
            speak("your gmail is open for you")
            time.sleep(5)

        elif "weather" in statement:
            api_key = "8ef61edcf1c576d65d836254e11ea420"
            base_url ="https://api.openweathermap.org/data/2.5/weather?"
            speak("whats 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_humidity = y["humidity"]
                z = x["weather"]
                weather_description = z[0]["description"]
                speak(" the temperature in kelvin units is " + str(current_tempe
rature) +"\n humidity in percentage is" + str(current_humidity) + "\n weather de
scription" + str(weather_description))
                print(" the temperature in kelvin units is " + str(current_tempe
rature) +"\n humidity in percentage is" + str(current_humidity) + "\n weather de
scription" + str(weather_description))
            else:
                speak("city not found")
```

```
                print("city not found")

        elif "time" in statement:
                    strTime = datetime.datetime.now().strftime("%H:%M:%S")
                    speak(f"the time is {strTime}")

        elif "who are you" in statement or "what can you do" in statement:
                    speak('I am JARVIS version 1 point 0 your personal assistan
t.I am programmed to minor tasks like'
                          'opening youtube,google chrome, gmail and stack overfl
ow,predict time,take a photo,search wikipedia,predict weather'
                          '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 "w
ho discovered you" in statement:
                    speak("I WAS BUILT BY Ai robosoft")
                    print("I WAS BUILT BY Ai robosoft")

        elif "open stackoverflow" in statement:
                    webbrowser.open_new_tab("https://stackoverflow.com/login")
                    time.sleep(5)

        elif "news" in statement:
                    news = webbrowser.open_new_tab("https://timesofindia.Indiati
mes.com/home/headlines")
                    speak("here are some headlines for you from times of India -
happy reading")
                    time.sleep(7)

        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 questi
ons too just try me !! what do you want to ask ")
                    question = takeCommand()
                    app_id = "R2K75H-7ELALHR35X"
                    client = wolframalpha.Client('R2K75H-7ELALHR35X')
                    res = client.query(question)
                    answer = next(res.results).text
                    speak(answer)
                    print(answer)

        elif "log off" in statement or "sign out" in statement or "shut down" in
statement:
                    speak("ok, Your PC will shut down in 10 seconds - make sure
 you have saved and exit from all applications")
                    subprocess.call(['shutdown',"/1"])


    time.sleep(3)
```

```
i am LISTENING
user said:open Google

i am LISTENING
user said:news

i am LISTENING
i am LISTENING
user said:search

i am LISTENING
user said:who built you

i am LISTENING
i am LISTENING
user said:can you do

i am LISTENING
user said:what can you do

i am LISTENING
i am LISTENING
user said:time

i am LISTENING
user said:open stack overflow

i am LISTENING
user said:open stack overflow

i am LISTENING
i am LISTENING
i am LISTENING
user said:open YouTube

i am LISTENING
i am LISTENING
user said:ok bye

Your personal AI assistant JARVIS in shutting down, Good bye
```

In [ ]:

In [ ]: