

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 SIMRAN')
```

LOADING YOUR A.I PERSONAL ASSISTANT SIMRAN

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 Miss Thasneem Fathima")
        print("Hello, good morning Miss Thasneem Fathima")
    elif hour >= 12 and hour <= 18:
        speak("Hello, good afternoon Miss Thasneem Fathima")
        print("Hello, good afternoon Miss Thasneem Fathima")
    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:  
            #print(f"user input {audio}")  
            statement = r.recognize_google(audio, language='en-IN')  
            statement = statement.lower()  
            print(f"user said:{statement}\n")  
            speak(statement)  
            #output formating statement  
  
        except Exception as e:  
            speak("Pardon me, please say that again")  
            return "None"  
    return statement
```

In [9]:

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

Hello, good afternoon Miss Thasneem Fathima

In [10]:

```

if __name__ == '__main__':
    while True:
        speak("How can i help you ?")
        statement = takeCommand()
        if statement == 0:
            continue
        if "good bye" in statement or "ok bye" in statement or "stop" in statement:
            speak("Your persional AI assistant SIMRAN is shutting down, GOOD BYE")
            print("Your persional AI assistant SIMRAN 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)
            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(1)

        elif "open gmail" in statement:
            webbrowser.open_new_tab("gmail.com")
            speak("your gmail is open for u")
            time.sleep(1)

        elif "weather" in statement:
            api_key = '8ef61edcflc576d65d836254e11ea420'
            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 + "&units=metric"

            response = requests.get(complete_url)
            x = response.json()
            if x["cod"] != "404":
                #if no error in output
                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_temperature) + "\n humidity in percentage is" + str(current_humidity) + "\n weather description" + str(weather_description))
                print("the temperature in kelvin units is " + str(current_temperature) + "\n humidity in percentage is" + str(current_humidity) + "\n weather description" + str(weather_description))

```

```

else:
    speak("city not found")
    print("city not found")
elif "time" in statement:
    today = datetime.datetime.now()
    strTime = today.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 Simran version 1 point 0 your personal assistant.I am pr
ogrammed for opeing youtube, google chrome, gmail, predict time and weather in d
ifferent cities, get headline news of india and you can ask me computational")

elif "who built you" in statement or "who created you" in statement or
"who discovered you" in statement or "who designed you" in statement:
    speak("I was build by Thasneem an AI Robosoft Engineer")
    print("I was build by Thasneem an AI Robosoft Engineer")

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

elif "news" in statement:
    news = webbrowser.open_new_tab("https://timesofindia.indiatimes.com/
headlines")
    speak("here are some headlines for u from times of India - happy rea
ding ")
    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 am answer to computational and geographical 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("OKay, Your PC will shutdown in 10 seconds - make sure your sa
ved and exit from all application")
    subprocess.call(['shutdown', '/1'])

time.sleep(3)

```

I AM LISTENING
I AM LISTENING
user said:open youtube

I AM LISTENING
user said:ask ask

I AM LISTENING
1 | noun | a canonical hour that is the ninth hour of the day counting from sunrise
2 | noun | a service in the Roman Catholic Church formerly read or chanted at 3 PM (the ninth hour counting from sunrise) but now somewhat earlier
3 | adjective | not any
4 | adverb | not at all or in no way
5 | pronoun | not one, not any; no one, nobody; nothing, no part (5 meanings)
I AM LISTENING
user said:time

I AM LISTENING
user said:what can you do

I AM LISTENING
user said:news news

I AM LISTENING
I AM LISTENING
user said:ok bye ok bye

Your personal AI assistant SIMRAN is shutting down, GOOD BYE

In []:

In []:

In []: