

TALKING FRIDAY

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Important modules: -

```
import speech_recognition as sr  
import webbrowser  
import pytsxs3  
import musicLibrary  
import requests
```

Important module
for fetching data
from internet in our
case from news API

→ To Take Voice
Input

→ to open browser
with python
To convert
text → Voice

→ Self made module to store
favourite music inside
a dictionary

```
engine = pytsxs3.init()  
newsapi = "Your-apihere"  
voices = engine.getProperty('voices')  
engine.setProperty('voice', voices[1].id)
```

→ to convert text to speech
an object to the class pytsxs3
to use its functions

→ to use news-api

[Voice1, Voice2, Voice3]

→ to fetch available Voices and assigning Voice to our Assistant

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

A string

→ function created for our convenience
to make agent
talk whatever
we pass to it.

```

Astomg
def processCommand(command):
    print(command)
    if("open google" in command.lower()):
        speak("opening " + command.split(" ")[1])
        webbrowser.open("https://google.com")
    elif("open facebook" in command.lower()):
        speak("opening " + command.split(" ")[1])
        webbrowser.open("https://facebook.com")
    elif("open chat gpt" in command.lower()):
        speak("opening " + command.split(" ")[1])
        webbrowser.open("https://chatgpt.com/")
    elif("open github" in command.lower()):
        speak("opening " + command.split(" ")[1])
        webbrowser.open("https://github.com")
    elif("open linkedin" in command.lower()):
        speak("opening " + command.split(" ")[1])
        webbrowser.open("https://linkedin.com")
    elif("open youtube" in command.lower()):
        speak("opening " + command.split(" ")[1])
        webbrowser.open("https://youtube.com")
    elif("open portfolio" in command.lower()):
        speak("opening your " + command.split(" ")[1])
        webbrowser.open_new_tab("https://helpful-elf-967c0f.netlify.app/")
    elif command.lower().startswith("play"):
        try:
            song = command.lower().split(" ")[1]
            link = musicLibrary.music[song]
            webbrowser.open(link)
        except KeyError:
            speak("Sorry sir, I don't have this song in my library")
    elif "news" in command.lower():
        r = requests.get("https://newsapi.org/v2/top-headlines?country=us&apiKey=(newsapi)")
        if r.status_code == 200:
            data = r.json()
            articles = data.get('articles',[])
            for article in articles:
                speak(article['title'])

```

LinkedIn]

Command
"open linkedin" → (" ") → [open]
to derive element. Split by Space
At index = 1 of the list

Used as best practice to check if working within same program
or working with some other program

```

if __name__ == "__main__":
    speak("INITIALIZING FRIDAY") → Command At Very Beginning...
    # LISTENING FOR THE WAKE WORD JARVIS
    while True: → Infinite loop → making program never ending
        # Microphone se input lena
        r = sr.Recognizer() →
        print("listening...")
        try:
            with sr.Microphone() as source: → for opening mic
                # Google Speech Recognition API se text me convert karo
                print("processing...")
                audio = r.listen(source, timeout=2, phrase_time_limit=1) → for listening Audio
                command = r.recognize_google(audio, language='en-US') → for Converting Audio to Text
                if(command.lower() == "friday"):
                    speak("YA")
                    print("Give Command")
                    with sr.Microphone() as source: → Mic open this time to take command
                        audio = r.listen(source, timeout=5, phrase_time_limit=2) → Listen Audio command
                        command = r.recognize_google(audio, language='en-US')
                        processCommand(command)
        
```

object of Recognizer class from module sr

Used To (and except to handle errors And overcoming chances of exiting program because of errors...)

NOW LISTENING FOR COMMAND

wake statement

CONVERTING TO TEXT USING GOOGLE API...

PASSED TO process Command!!!

```
except sr.UnknownValueError:  
    print("Samajh nahi aaya, thoda clearly bolo.")  
except sr.WaitTimeoutError:  
    print("Timeout: Tumne kuch bola hi nahi.")  
except sr.RequestError as e:  
    print(f"Request error: {e}")
```

To HANDLE Error
we use except

Block

And Also it
makes our program
run smoothly...

```
engines/Windows/  
def close_process_with_grace(process_name, wait_seconds=5):  
    # Step 1: Gracefully close (taskkill without /F)  
    subprocess.run(["taskkill", "/IM", process_name], shell=True)  
    print(f"Sent close signal to {process_name}, waiting {wait_seconds} seconds...")  
  
    # Step 2: Wait for process to close  
    time.sleep(wait_seconds)  
  
    # Step 3: Force kill (taskkill with /F)  
    # This will ensure process is terminated if still running  
    subprocess.run(["taskkill", "/F", "/IM", process_name], shell=True)  
    print(f"Force kill command sent to {process_name} (if still running).")
```

} To smoothly
shut down
In window
Application

```
import subprocess  
import time
```

Module necessary to open
And close files...

To Add delay for smooth shutting
off of the Softwares like whatsapp
And Browser in our case...

Adding Brain to Our Assistant:-

We would integrate A LLM using OLLAMA...

→ Install OLLAMA to host LLM in your local machine

```
def ask_local_llm(prompt):
    # Localhost par chal raha LLM API ka endpoint
    url = "http://localhost:11434/api/generate"

    # Request ke liye data prepare kar rahe hain
    data = {
        "model": "llama3.2:latest", # Use karne wala model ka naam (yahan 'llama3.2')
        "prompt": prompt,          # User ka input ya sawal jo LLM ko dena hai
        "stream": False            # stream=False ka matlab hai pura response ek hi baar mein milta
    }

    try:
        # POST request bhejna local LLM API par
        response = requests.post(url, json=data)

        # Agar request successful ho (HTTP 200 status code)
        if response.status_code == 200:
            # JSON response se "response" field nikaal kar strip (whitespace hata) kar return karo
            return response.json()["response"].strip()
        else:
            # Agar model se response na aaye to error message return karo
            return "Sorry bhai, model se response nahi aaya."
    
```

→ to make sure question is asked

```
question = ["what", "how", "when", "where", "tell me", "can you", "who"]
```

→ from handle commands function

else:

```
for word in question: }→ Read forloop and for  
    if word in command:  
        speak("Processing with my brain sir please wait.")  
        answer = ask_local_llm(command)  
        speak(clear_response(answer))  
        speak("next question sir")
```

if word from

Question list

invoke LLM

↳ Now we would Add this Else statement
to handle Questions asked to our
Assistant...

→ MAKE SURE TO RUN THAT LLM Model
Open command prompt and ENTER

```
>ollama run llama3.2:latest  
age (/? for help)
```