

Jarvis Programming

```
import pytsx3 #pip install pytsx3
import speech_recognition as sr #pip install speechRecognition
import datetime
import wikipedia #pip install wikipedia
import webbrowser
import os
import smtplib
```

```
engine = pytsx3.init('sapi5')
voices = engine.getProperty('voices')
# print(voices[1].id)
engine.setProperty('voice', voices[0].id)
```

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

```
def wishMe():
    hour = int(datetime.datetime.now().hour)
    if hour>=0 and hour<12:
        speak("Good Morning!")
```

```
    elif hour>=12 and hour<18:
        speak("Good Afternoon!")
```

else:

 speak("Good Evening!")

 speak("I am Jarvis Sir. Please tell me how may I help you")

def takeCommand():

 #It takes microphone input from the user and returns string output

 r = sr.Recognizer()

 with sr.Microphone() as source:

 print("Listening...")

 r.pause_threshold = 1

 audio = r.listen(source)

 try:

 print("Recognizing...")

 query = r.recognize_google(audio, language='en-in')

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

 except Exception as e:

 # print(e)

 print("Say that again please...")

 return "None"

 return query

def sendEmail(to, content):

 server = smtplib.SMTP('smtp.gmail.com', 587)

 server.ehlo()

```
server.starttls()
server.login('youremail@gmail.com', 'your-password')
server.sendmail('youremail@gmail.com', to, content)
server.close()
```

```
if __name__ == "__main__":
    wishMe()
    while True:
        # if 1:
            query = takeCommand().lower()

        # Logic for executing tasks based on query
        if 'wikipedia' in query:
            speak('Searching Wikipedia...')
            query = query.replace("wikipedia", "")
            results = wikipedia.summary(query, sentences=2)
            speak("According to Wikipedia")
            print(results)
            speak(results)

        elif 'open youtube' in query:
            webbrowser.open("youtube.com")

        elif 'open google' in query:
            webbrowser.open("google.com")

        elif 'open stackoverflow' in query:
            webbrowser.open("stackoverflow.com")
```

elif 'play music' in query:

```
music_dir = 'D:\\Non Critical\\songs\\Favorite Songs2'
```

```
songs = os.listdir(music_dir)
```

```
print(songs)
```

```
os.startfile(os.path.join(music_dir, songs[0]))
```

elif 'the time' in query:

```
strTime = datetime.datetime.now().strftime("%H:%M:%S")
```

```
speak(f"Sir, the time is {strTime}")
```

elif 'open code' in query:

```
codePath = "C:\\Users\\Haris\\AppData\\Local\\Programs\\Microsoft VS  
Code\\Code.exe"
```

```
os.startfile(codePath)
```

elif 'email to harry' in query:

```
try:
```

```
    speak("What should I say?")
```

```
    content = takeCommand()
```

```
    to = "harryyourEmail@gmail.com"
```

```
    sendEmail(to, content)
```

```
    speak("Email has been sent!")
```

```
except Exception as e:
```

```
    print(e)
```

```
    speak("Sorry my friend harry bhai. I am not able to send this email")
```