

In [1]:

```
import pytsx3

engine=pytsx3.init('sapi5')
voices = engine.getProperty("voices")
print(voices[0])

<Voice id=HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Speech\Voices\Tokens\TTS_MS_
EN-US_DAVID_11.0
      name=Microsoft David Desktop - English (United States)
      languages=[]
      gender=None
      age=None>
```

In [2]:

```
engine.setProperty('voice', voices [1].id)
engine.setProperty("rate", 150)
def engine_talk(text):
    engine.say(text)
    engine.runAndWait()

engine_talk("Hello Every One")
```

In [5]:

```
import speech_recognition as sr
import pytsx3
def hearme():
    r = sr.Recognizer()
    with sr.Microphone() as source:
        print("Liseneing --")
        audio = r.listen(source)
    try:
        print("Recognizing")
        query = r.recognize_google(audio,language='en-in')
        print("you said:",query)
        engine.say(query)
        engine.runAndWait()
    except Exception:
        engine.say('say that again')
        print('say that again')
hearme()
```

```
Liseneing --
Recognizing
you said: complete my project
```

## Code:

In [\*]:

```

import speech_recognition as sr
import pyttsx3
import pywhatkit
import datetime
import wikipedia
import pyjokes
import sys
import webbrowser
from datetime import date

engine=pyttsx3.init()
engine.setProperty("rate", 150)
voices = engine.getProperty("voices")
engine.setProperty('voice', voices [1].id)
recognizer=sr.Recognizer()

def engine_talk(text):
    engine.say(text)
    engine.runAndWait()

def run_alexa():

    with sr.Microphone() as source:
        recognizer.adjust_for_ambient_noise(source,duration=1)
        print('\n')
        print("Start Speaking!!")
        engine_talk('listening.. ')
        recordedaudio=recognizer.listen(source)
    try:
        command=recognizer.recognize_google(recordedaudio,language='en-in')
        command = command.lower()
        if 'alexa' in command :
            command = command.replace('alexa', '')
            print('you said'+command)
        else :

            print('you said : '+command)

        if 'hello' in command :
            print('hello how can i helpp you ??')
            engine_talk('hello, how can i help you ??')

        elif 'who are you' in command :
            print('I am mini alexa a k a your virtual assistant master')
            engine_talk('I am mini alexa a k a your virtual assistant master. how can i hel

        elif 'can you do' in command :
            print('i can play songs on youtube , tell you a joke, search on wikipedia, te
            open different websites like instagram, youtube,gmail, git hub, stack overf
            engine_talk('i can play songs on youtube , tell you a joke, search on wikiped
            open different websites like insta gram, youtube,gmail, git hub, st

        elif 'play' in command:
            song = command.replace('play', '')
            print('Playing' +song)
            engine_talk('Playing' +song)
            pywhatkit.playonyt(song)

        elif 'date and time' in command :

```

```

today = date.today()
time = datetime.datetime.now().strftime('%I:%M %p')
# Textual month, day and year
d2 = today.strftime("%B %d, %Y")
print("Today's Date is ", d2, 'Current time is', time)
engine_talk('Today is : '+ d2)
engine_talk('and current time is '+ time)

elif 'time and date' in command :
    today = date.today()
    time = datetime.datetime.now().strftime('%I:%M %p')
    # Textual month, day and year
    d2 = today.strftime("%B %d, %Y")
    print("Today's Date is ", d2, 'Current time is', time)
    engine_talk('Current time is '+ time)
    engine_talk('and Today is : '+ d2)

elif 'time' in command:
    time = datetime.datetime.now().strftime('%I:%M %p')
    print('The current time is' +time)
    engine_talk('The current time is')
    engine_talk(time)

elif 'date' in command:
    today = date.today()
    print("Today's date:", today)
    # Textual month, day and year
    d2 = today.strftime("%B %d, %Y")
    print("Today's Date is ", d2)
    engine_talk('The todays date is')
    engine_talk(d2)

elif 'tell me about' in command:
    name = command.replace('tell me about' , '')
    info = wikipedia.summary(name, 1)
    print(info)
    engine_talk(info)

elif 'wikipedia' in command:
    name = command.replace('wikipedia' , '')
    info = wikipedia.summary(name, 1)
    print(info)
    engine_talk(info)

elif 'what is' in command:
    name = command.replace('what is ' , '')
    info = wikipedia.summary(name, 1)
    print(info)
    engine_talk(info)

elif 'who is ' in command:
    name = command.replace('who is' , '')
    info = wikipedia.summary(name, 1)
    print(info)
    engine_talk(info)

elif 'what is ' in command :
    search = 'https://www.google.com/search?q='+command
    print(' Here is what i found on the internet..')
    engine_talk('searching... Here is what i found on the internet..')
    webbrowser.open(search)

```

```
elif 'joke' in command:
    _joke = pyjokes.get_joke()
    print(_joke)
    engine_talk(_joke)

elif 'search' in command :
    search = 'https://www.google.com/search?q='+command
    engine_talk('searching... ')
    webbrowser.open(search)

elif "my location" in command:
    url = "https://www.google.com/maps/search/Where+am+I+?/"
    webbrowser.get().open(url)
    engine_talk("You must be somewhere near here, as per Google maps")

elif 'locate ' in command :
    engine_talk('locating ...')
    loc = command.replace('locate', '')

if 'on map' in loc :
    loc= loc.replace('on map',' ')
    url = 'https://google.nl/maps/place/'+loc+'&'
    webbrowser.get().open(url)
    print('Here is the location of '+loc)
    engine_talk('Here is the location of '+loc)

elif 'on map' in command :
    engine_talk('locating ...')
    loc = command.split(" ")
    print(loc[1])
    url = 'https://google.nl/maps/place/'+loc[1] +'/&'
    webbrowser.get().open(url)
    print('Here is the location of '+loc[1])
    engine_talk('Here is the location of '+loc[1])

elif 'location of' in command :
    engine_talk('locating ...')
    loc = command.replace('find location of', '')
    url = 'https://google.nl/maps/place/'+loc+'&'
    webbrowser.get().open(url)
    print('Here is the location of '+loc)
    engine_talk('Here is the location of '+loc)

elif 'where is ' in command :
    engine_talk('locating ...')
    loc = command.replace('where is', '')
    url = 'https://google.nl/maps/place/'+loc+'&'
    webbrowser.get().open(url)
    print('Here is the location of '+loc)
    engine_talk('Here is the location of '+loc)

elif 'bootcamps' in command :
    search = 'http://tathastu.twowaits.in/index.html#courses'
    engine_talk('opening boot camps')
    webbrowser.open(search)

elif 'boot camps' in command :
    search = 'http://tathastu.twowaits.in/index.html#courses'
    engine_talk('opening boot camps')
    webbrowser.open(search)
```

```
elif 'python bootcamp' in command :
    search = 'http://tathastu.twowaits.in/kickstart_python.html'
    engine_talk('showing pythonboot camp')
    webbrowser.open(search)

elif 'data science bootcamp' in command :
    search = 'http://tathastu.twowaits.in/kickstart_data_science.html'
    engine_talk('showing data science and ml bootcamp')
    webbrowser.open(search)

elif 'open google' in command :
    print('opening google ...')
    engine_talk('opening google..')
    webbrowser.open_new('https://www.google.co.in/')

elif 'gmail' in command :
    print('opening gmail ...')
    engine_talk('opening gmail..')
    webbrowser.open_new('https://mail.google.com/')

elif 'open youtube' in command :
    print('opening you tube ...')
    engine_talk('opening you tube..')
    webbrowser.open_new('https://www.youtube.com/')

elif 'open instagram' in command :
    print('opening instagram ...')
    engine_talk('opening insta gram..')
    webbrowser.open_new('https://www.instagram.com/')

elif 'open stack overflow' in command :
    print('opening stackoverflow ...')
    engine_talk('opening stack overflow...')
    webbrowser.open_new('https://stackoverflow.com/')

elif 'open github' in command :
    print('opening git hub ...')
    engine_talk('opening git hub...')
    webbrowser.open_new('https://github.com/')

elif 'bye' in command:
    print('good bye, have a nice day !!')
    engine_talk('good bye, have a nice day !!')
    sys.exit()

elif 'thank you' in command :
    print("your welcome")
    engine_talk('your welcome')

elif 'stop' in command:
    print('good bye, have a nice day !!')
    engine_talk('good bye, have a nice day !!')
    sys.exit()

elif 'tata' in command:
    print('good bye, have a nice day !!')
    engine_talk('good bye, have a nice day !!')
    sys.exit()

else:
```

```

print(' Here is what i found on the internet..')
engine_talk('Here is what i found on the internet..')
search = 'https://www.google.com/search?q='+command
webbrowser.open(search)
except Exception as ex:
    print(ex)

print('Clearing background noise...Please wait')
engine_talk('Clearing background noise...Please wait')
print('\n')
print("hello, i am mini alexa how can i help you ??")
engine_talk ("hello i am mini alexa how can i help you ")

while True:
    run_alexas()

```

Clearing background noise...Please wait

hello, i am mini alexa how can i help you ??

Start Speaking!!

you said : can you do

i can play songs on youtube , tell you a joke, search on wikipedia, tell date and time, find your location, locate area on map,

open different websites like instagram, youtube, gmail, github, stack overflow and searches on google. How may i help you ??

local variable 'loc' referenced before assignment

Start Speaking!!

you said : locate mumbai

Here is what i found on the internet..

Start Speaking!!

you said : open youtube

local variable 'loc' referenced before assignment

Start Speaking!!

you said : tell me a joke

A good programmer is someone who always looks both ways before crossing a one-way street.

local variable 'loc' referenced before assignment

Start Speaking!!

you said : open gmail

local variable 'loc' referenced before assignment

Start Speaking!!

you said : current time and date

Today's Date is August 30, 2022 Current time is 11:17 AM

local variable 'loc' referenced before assignment

```
Start Speaking!!  
you said : thank you  
local variable 'loc' referenced before assignment
```

```
Start Speaking!!  
you said : opening github  
local variable 'loc' referenced before assignment
```

```
Start Speaking!!
```

```
Start Speaking!!
```

```
Start Speaking!!
```

```
Start Speaking!!
```

```
Start Speaking!!
```

```
Start Speaking!!
```

```
Start Speaking!!
```

```
Start Speaking!!
```

```
Start Speaking!!
```