In [1]:

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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
        elif 'can you do' in command :
            print('''i can play songs on youtube , tell you a joke, search on wikipedia
                    open different websites like instagram, youtube,gmail, git hub, sta
            engine_talk('''i can play songs on youtube , tell you a joke, search on wik
                        open different websites like insta gram, youtube,gmail, git hub
        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)
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        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+?/"
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```
        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+'/&amp;'
        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] +'/&amp;'
        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+'/&amp;'
        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+'/&amp;'
        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 ...')
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```
            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_alexa()
```

```
Clearing background noise...Please wait


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


Start Speaking!!
FLAC conversion utility not available - consider installing the FLAC command line applic
ation by running `apt-get install flac` or your operating system's equivalent


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```
Start Speaking!!
---------------------------------------------------------------------------
KeyboardInterrupt                         Traceback (most recent call last)
~\AppData\Local\Temp/ipykernel_7012/2981455477.py in <module>
    221
    222 while True:
--> 223     run_alexa()

~\AppData\Local\Temp/ipykernel_7012/2981455477.py in run_alexa()
     25         print("Start Speaking!!")
     26         engine_talk('listening.. ')
---> 27         recordedaudio=recognizer.listen(source)
     28     try:
     29         command=recognizer.recognize_google(recordedaudio,language='en-in')

~\Anaconda3\lib\site-packages\speech_recognition\__init__.py in listen(self, source, tim
eout, phrase_time_limit)
    576                     break
    577
--> 578                 buffer = source.stream.read(source.CHUNK)
    579                 if len(buffer) == 0: break  # reached end of the stream
    580                 frames.append(buffer)

~\Anaconda3\lib\site-packages\speech_recognition\__init__.py in read(self, size)
    159
    160         def read(self, size):
--> 161             return self.pyaudio_stream.read(size, exception_on_overflow=False)
    162
    163         def close(self):

~\Anaconda3\lib\site-packages\pyaudio.py in read(self, num_frames, exception_on_overflo
w)
    606                             paCanNotReadFromAnOutputOnlyStream)
    607
--> 608         return pa.read_stream(self._stream, num_frames, exception_on_overflow)
    609
    610     def get_read_available(self):

KeyboardInterrupt:
```

In [ ]: