BUILD YOUR OWN ALEXA USING PYTHON

//Install **SpeechRecognition** Module on Jupyter Notebook
(It help for speech recognition from the microphone)

//Install **pyttsx3** Module on Jupyter Notebook
(It Convert Text to Speech)

//Install **pywhatkit** Module on Jupyter Notebook
(It use for automation)

//Install **pyaudio** Module on Jupyter Notebook
(With PyAudio, you can easily use Python to play and record audio on a variety of platforms, such as Microsoft Windows, and Apple macOS)

—----------MAIN CODE—----------

```
import speech_recognition as sr
import pyttsx3
import pywhatkit

listener = sr.Recognizer()
engine = pyttsx3.init()
voices = engine.getProperty('voices')
engine.setProperty('voice', voices[1].id)


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


def take_command():
    try:
        with sr.Microphone() as source:
            print('listening...')
            voice = listener.listen(source)
            command = listener.recognize_google(voice)
            command = command.lower()
            if 'alexa' in command:
                command = command.replace('alexa', '')
                print(command)
    except:
        pass
    return command
```

```
def run_alexa():
    command = take_command()
    print(command)
    if 'play' in command:
        song = command.replace('play', '')
        talk('playing ' + song)
        pywhatkit.playonyt(song)
        else:
        talk('Please say the command again.')


while True:
    run_alexa()
```