Instructions for using our voice based virtual assistant – Luca

Created by –

Mayank Narendra Nimje – 20MIM10075

1. First you have to install Anaconda Navigator on your pc and make the following settings so that it will work properly.
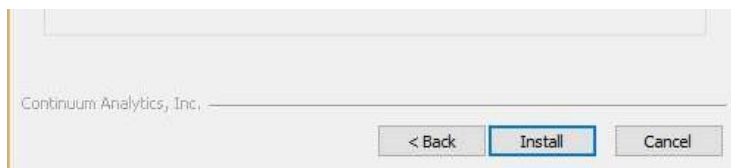
The anaconda navigator's installer for windows is given in our zip file under the Anaconda Navigator setup folder.

but it you are a mac user you can directly download it from google using the given link.

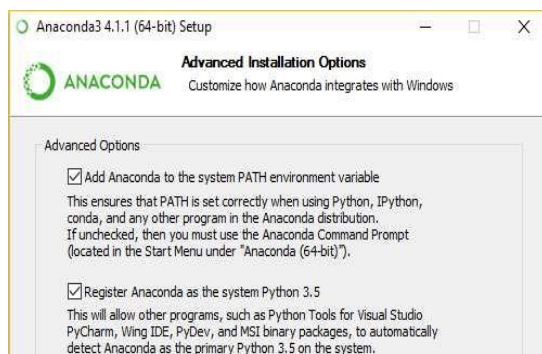https://www.anaconda.com/products/individual

Now, let's talk about installing it, it is very easy only thing you have to do while installing is that you have to select both things as given bellow: -

2. Note that Continuum's Python distribution should (per their quick start guide) install cleanly into a single directory, should not require Administrator or root privileges, and should not affect other Python installs on your system (if you have any), or interfere with OSX Frameworks. Let us know in the forum if you're having any issues, so that others can learn along with you.
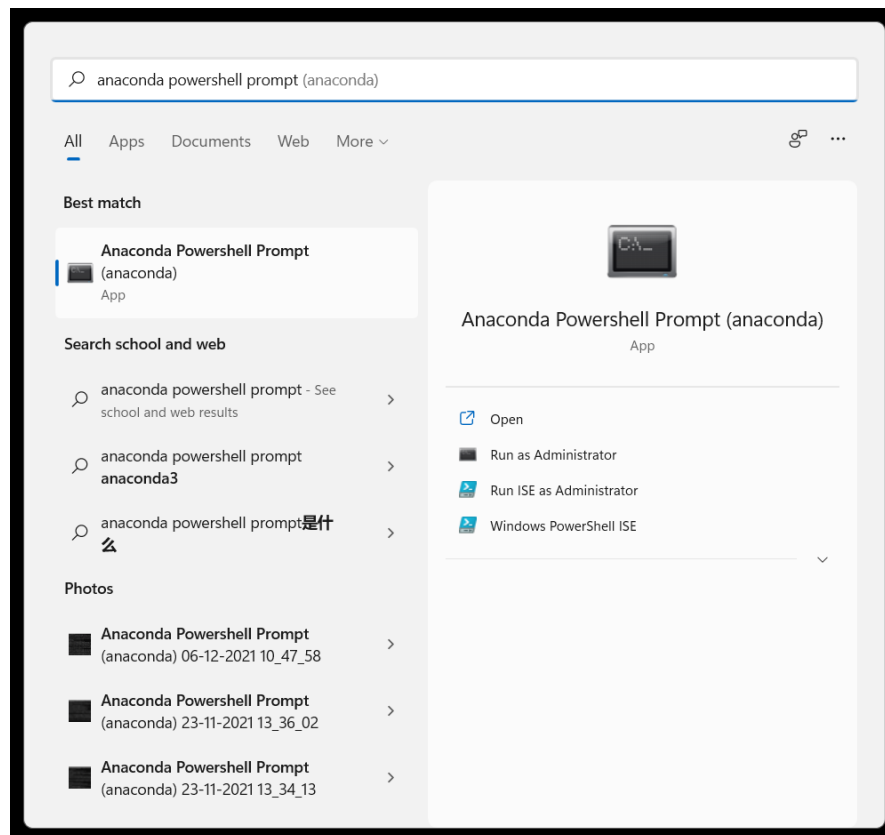
3. When installing Anaconda, a pop-up menu may ask whether or not to "Add Anaconda to my PATH environment variable", and "Register Anaconda as my default Python 3.5." We suggest accepting both options for the purposes of this class.

2. Now after installing anaconda navigator on your pc, you have to open the <u>Anaconda PowerShell prompt (anaconda)</u>

Then, In the <u>Anaconda PowerShell prompt (anaconda)</u> you have to install all the packages and library using <u>pip command</u> that we have used for making this project.

All the commands are given below: -

```
pip install SpeechRecognition
```

```
pip install pyttsx3
```

```
pip install Wikipedia
```

```
pip install DateTime
```

```
pip install times
```

```
pip install subprocess32
```

```
pip install jsons
```

```
pip install requests

pip install wolframalpha

pip install pipwin

pip install newsapi-python

pip install pyjokes

pip install PyAutoGUI

pip install os-win

pip install psutil

pip install newsapi
```

After installing all these packages and libraries, there is one more package pyaudio, to get started with playback and recording audio on Windows, Linux, and MacOS in a Python environment.

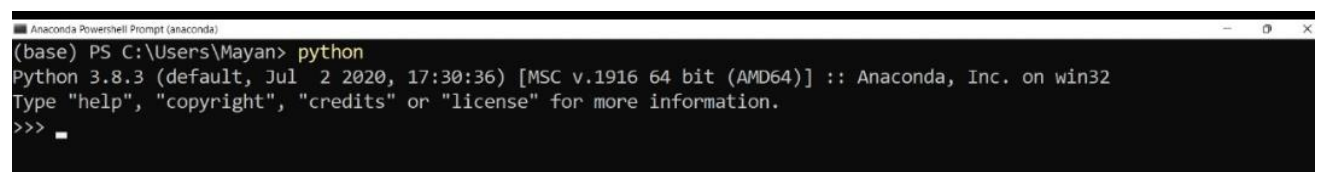- To install this, we can use following methods: -

```
pip install PyAudio
```

- If it is showing error in your Anaconda PowerShell prompt then you can install it by using pipwin command,

```
pipwin install PyAudio
```

- If it still showing some error and it is not installing in your prompt then you can install it directly into your pc,

Just type 'python' in your Anaconda PowerShell prompt and it will show which python version you are currently using according to it you can pyaudio unofficially.

In my prompt it is showing Python 3.8.3 (AMD64)

So, I will use the PyAudio-0.2.11-cp38-cp38-win_amd64.whl file to install pyaudio.

You just have to do that according to your python version select the Pyaudio file from pyaudio folder in our zip file and paste it in the download folder for your pc, then do the following,
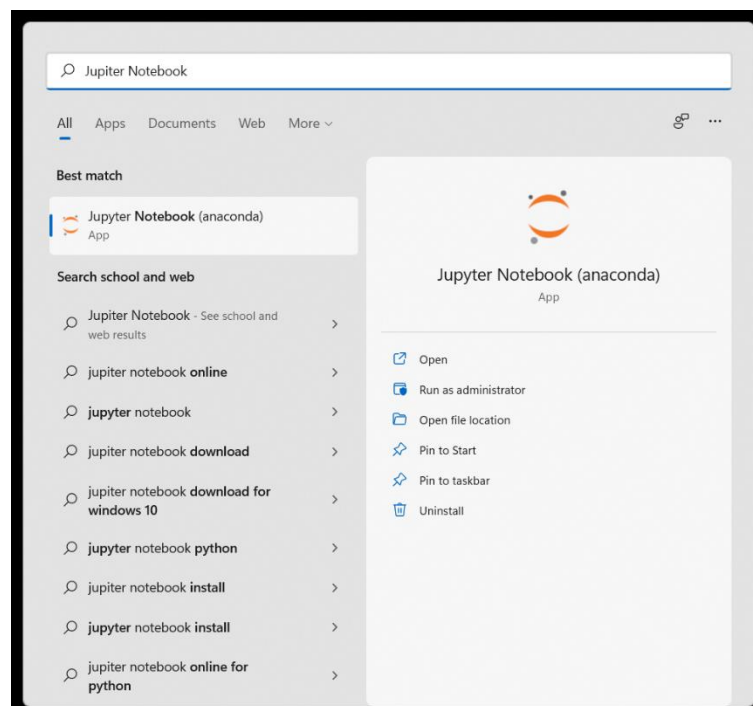
- Type cd Downloads in prompt

```
>>>
(base) PS C:\Users\Mayan> cd Downloads
(base) PS C:\Users\Mayan\Downloads>
```
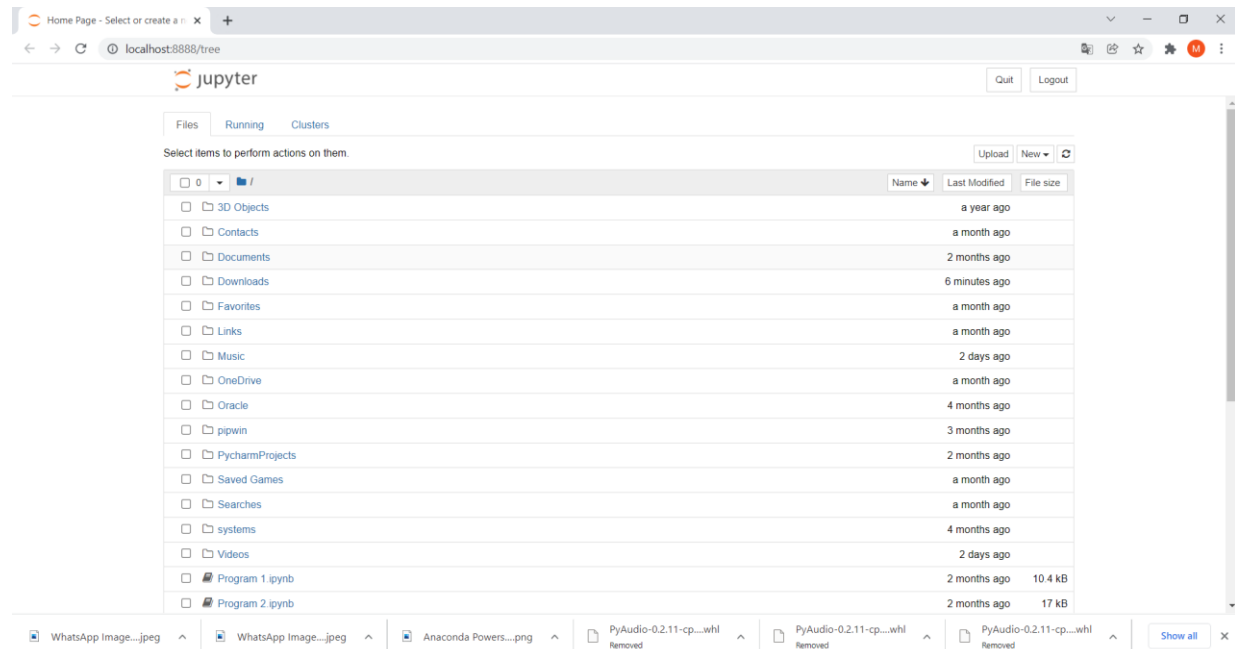
- Then, use pip command as given below,

```
pip install PyAudio-0.2.11-cp38-cp38-win_amd64.whl
```

```
>>>
(base) PS C:\Users\Mayan> cd Downloads
(base) PS C:\Users\Mayan\Downloads> pip install PyAudio-0.2.11-cp38-cp38-win_amd64.whl
```
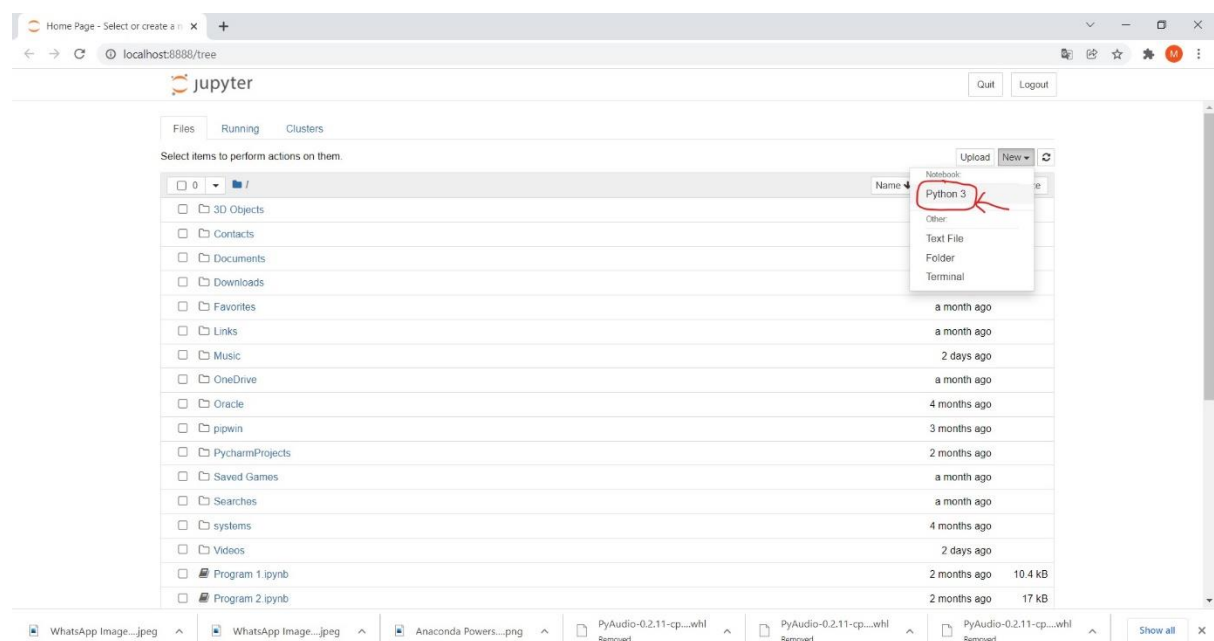
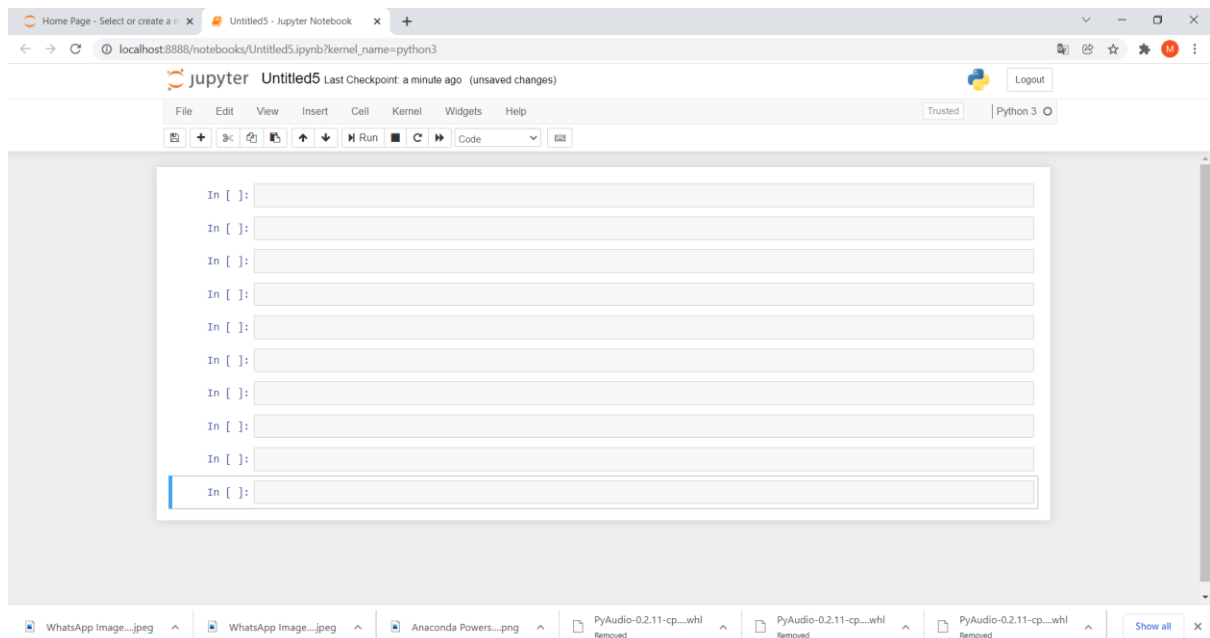3. Now, after installing all this packages, Open the Jupiter notebook,

Before opening Jupiter notebook remember to paste aur project code i.e.
.py file or <u>Jupiter source file</u> to any of this folders and open it in Jupiter
notebook.

After opening our code in jupiter notebook just go to new in the
Homepage and select python3 and the paste the code line by line in the
in different cell.

You can create cell using + option at top and delete any cell using scissor option at top.
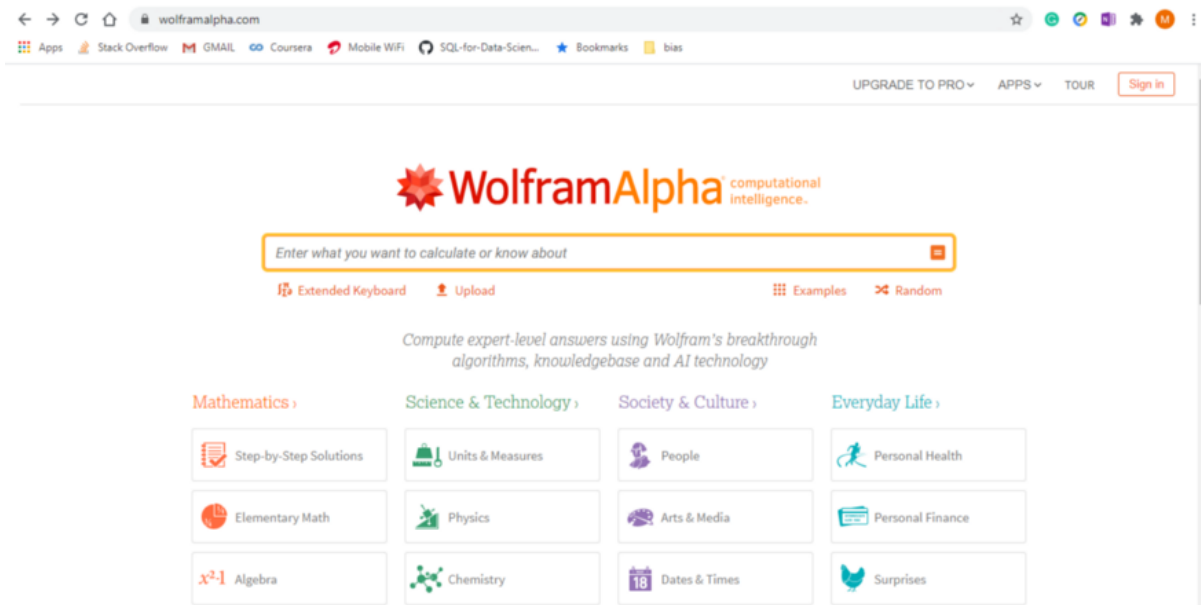

4. In our program there is block of code which require an API ID of Wolfram Alpha so that our virtual assistant can able to give answers to computational or geographical questions.

   To access the wolfram alpha API a unique App ID is required which can be generated by the following ways:

4.1 Login to the official page of wolfram alpha and create an account if you do not possess one.
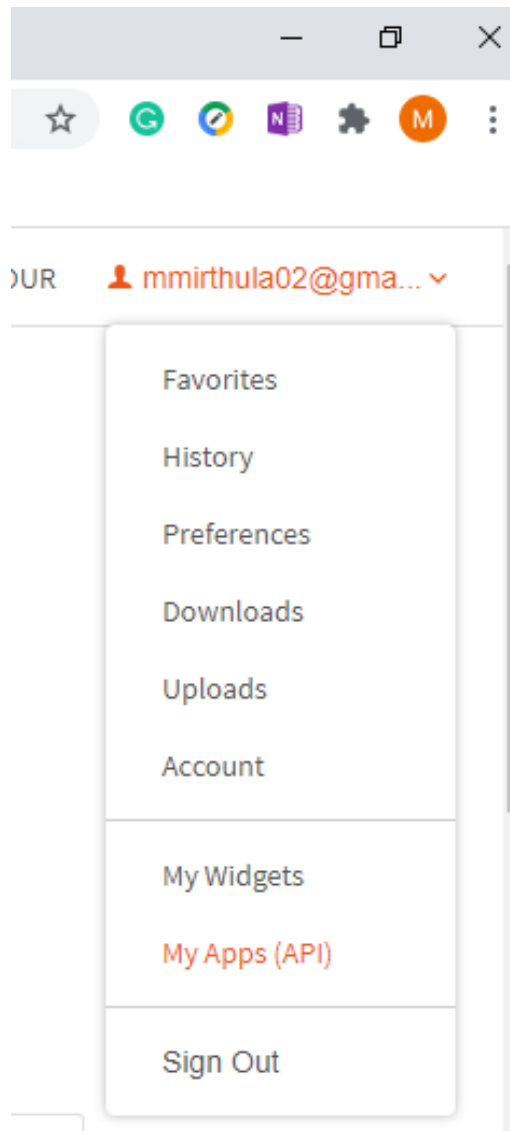
You can use the link given below:

https://www.wolframalpha.com/

4.2 Sign in using your wolfram ID

4.3 Now you will view the homepage of the website. Head to the account section in the top right corner where you see your email. In the drop-down menu, select the My Apps (API) option.
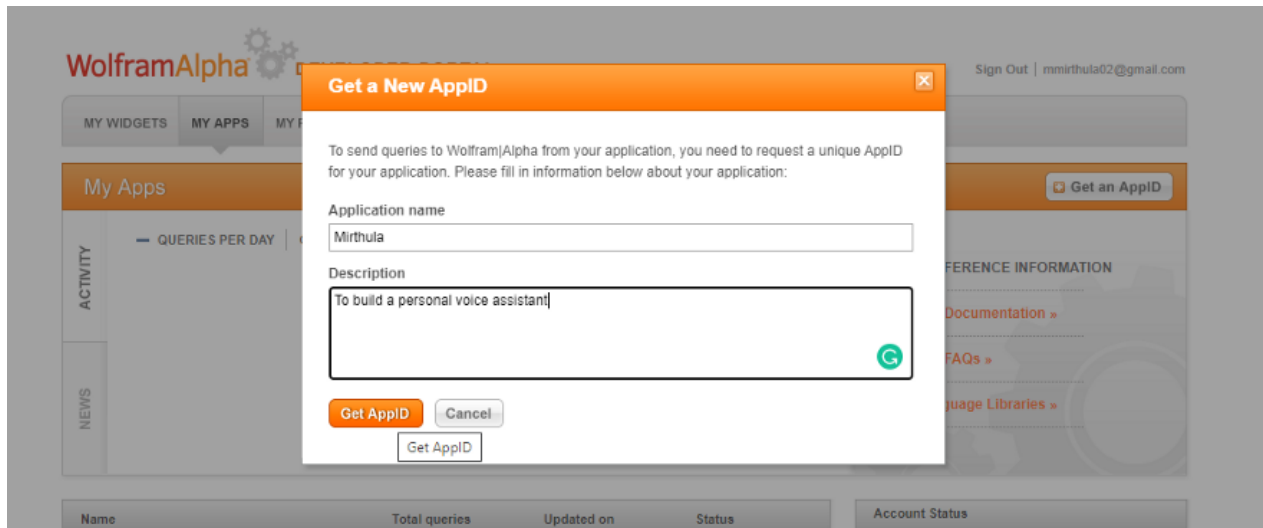
4.4 You will see this following window, now click **Get APP_ID** button.

4.5 Now you will get the following dialog box, give a suitable name and description and click the App ID button, an App ID will be generated and this is a unique ID. Using the App Id use can access the Wolfram alpha API.

5. Enjoy working with our virtual assistant (Luca).