

Tutorial to Deploy your CoWIN-Notifier

This manual will guide you step by step to enable SMS notification for vaccine availability. (This is for Windows users, if you have a Mac then please try these steps analogously and contact me if you face any issues)

Step 1: Install Python

The app requires python you can install the anaconda distribution since it is the easiest to use.

Follow the link: [Anaconda | Individual Edition](#)



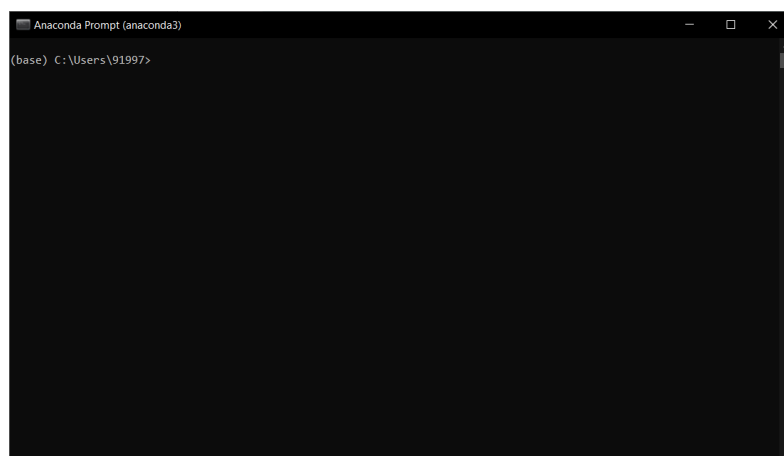
Download the one suitable for your OS.

Install Anaconda with default settings.

After you have installed the Anaconda distribution. Open it

Step 2: Downloading and Installing Libraries

Go to Start and search for 'Anaconda Prompt' and open it. You should have something like this:



In the Command Prompt type this command and press enter

`pip install CoWIN-API-by-Kunal-Kumar-Sahoo`

```
Anaconda Prompt (anaconda3)
Requirement already satisfied: six in c:\users\91997\anaconda3\lib\site-packages (from packaging->pytest==6.2.3->CoWIN-API-by-Kunal-Kumar-Sahoo) (1.15.0)
Requirement already satisfied: pyparsing>=2.0.2 in c:\users\91997\anaconda3\lib\site-packages (from packaging->pytest==6.2.3->CoWIN-API-by-Kunal-Kumar-Sahoo) (2.4.7)
Building wheels for collected packages: typing, fake-useragent
  Building wheel for typing (setup.py) ... done
    Created wheel for typing: filename=typing-3.7.4.3-py3-none-any.whl size=26312 sha256=70f9cbb4b3c5009c4a6b04da5946768f7b4f90222424e51c1f50bbbfb0020be1
    Stored in directory: c:\users\91997\appdata\local\pip\cache\wheels\5e\5d\01\3083e091b57809dad979ea543def62d9d878950e3e74f0c930
  Building wheel for fake-useragent (setup.py) ... done
    Created wheel for fake-useragent: filename=fake_useragent-0.1.11-py3-none-any.whl size=13489 sha256=023c92beffd51ba7f667d6a39c26271163686e5160ff658bcc9a9a105939aa7a
    Stored in directory: c:\users\91997\appdata\local\pip\cache\wheels\ab\b8\b7\8c942b2c5be5158b874a88195116b05ad124bac795f6665e65
Successfully built typing fake-useragent
Installing collected packages: pytest, typing, requests, fake-useragent, CoWIN-API-by-Kunal-Kumar-Sahoo
  Attempting uninstall: pytest
    Found existing installation: pytest 0.0.0
    Uninstalling pytest-0.0.0:
      Successfully uninstalled pytest-0.0.0
  Attempting uninstall: requests
    Found existing installation: requests 2.24.0
    Uninstalling requests-2.24.0:
      Successfully uninstalled requests-2.24.0
Successfully installed CoWIN-API-by-Kunal-Kumar-Sahoo-1.0.0 fake-useragent-0.1.11 pytest-6.2.3 requests-2.25.1 typing-3.7.4.3
(base) C:\Users\91997>
```

This is what you get after running it.

Next run the following command in the same way

`pip install twilio`


After you have completed this, you need to create a free trial Twilio account. Twilio lets you send SMS through internet. The free account will be able to send SMS to ONE NUMBER ONLY.

Step 3: Creating Twilio Account

Go to: [Twilio - Communication APIs for SMS, Voice, Video and Authentication](https://www.twilio.com)

Sign up and create an account. Once you have created an account you should have something like this:

My first Twilio account ✎




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Project Info


ACCOUNT SID

AC72abefc0ddb82fa81334f2ed81b4d5bd 


TRIAL BALANCE

\$14.39

AUTH TOKEN

Show 

PHONE NUMBER

+13177236901  [Upgrade to buy more numbers](#)

Your SID and Authorization token will be required in the Python script.

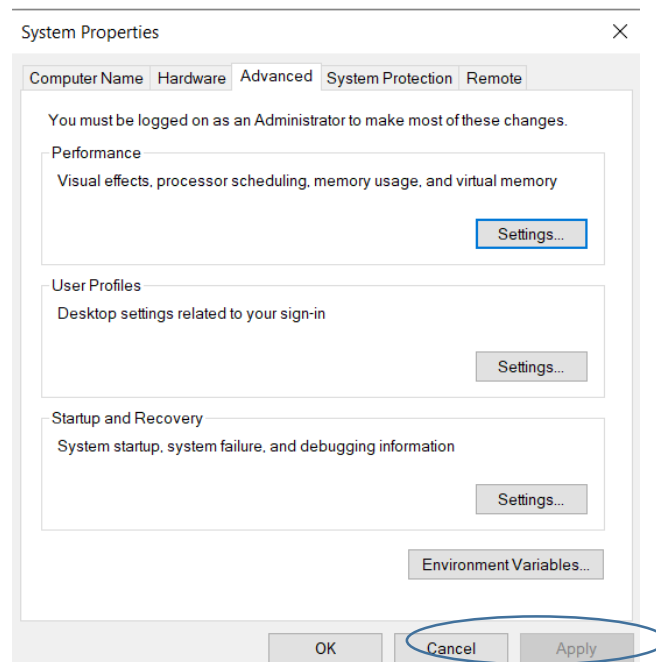
Phone number may not be present in the first instance when you create the account, just scroll down and there'll be an option to create a Twilio phone number.

Step 4: Adding Path Variables

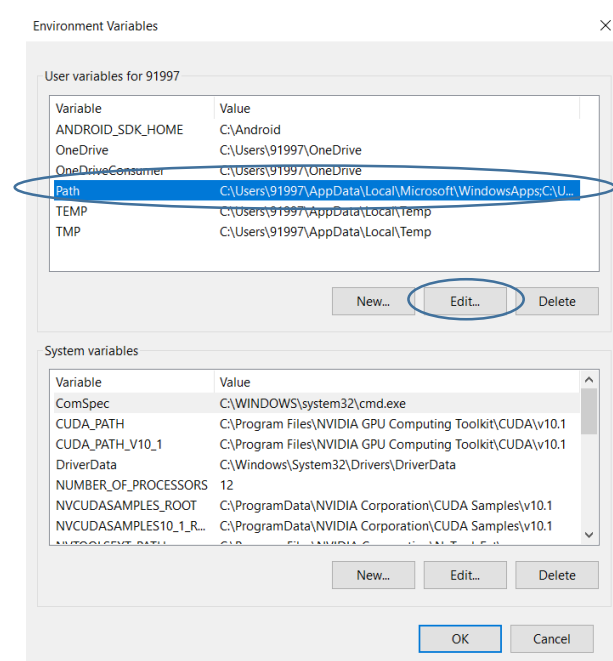
This is the final technical step.

Go to Start -> Search for 'Edit the System Environment Variables'

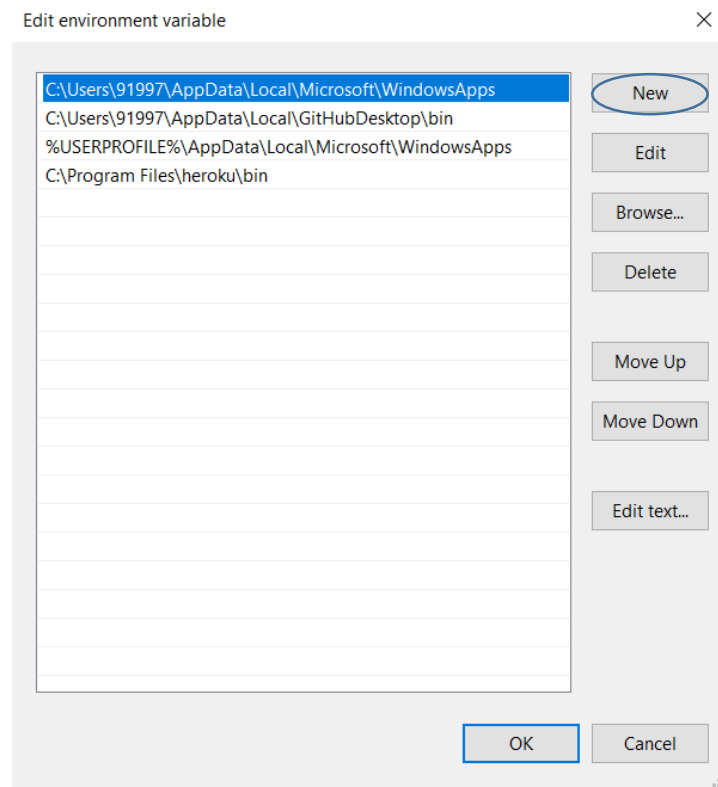
Or follow this [Editing System Environment Variables | imatest](#) to reach till this window:



Click on the 'Environment Variables' in the above window.



Click the 'Path' Variable in the Environment variables and Click 'Edit' to reach here:



Click on 'New' and you should be able to edit the variables.

You need to add three variables so you will have to follow the following instructions thrice.

- 1) Find the users folder it would be as follows in windows:

e.g. C:\Users\91997

i.e. in the C drive -> users -> 'your user name' folder.

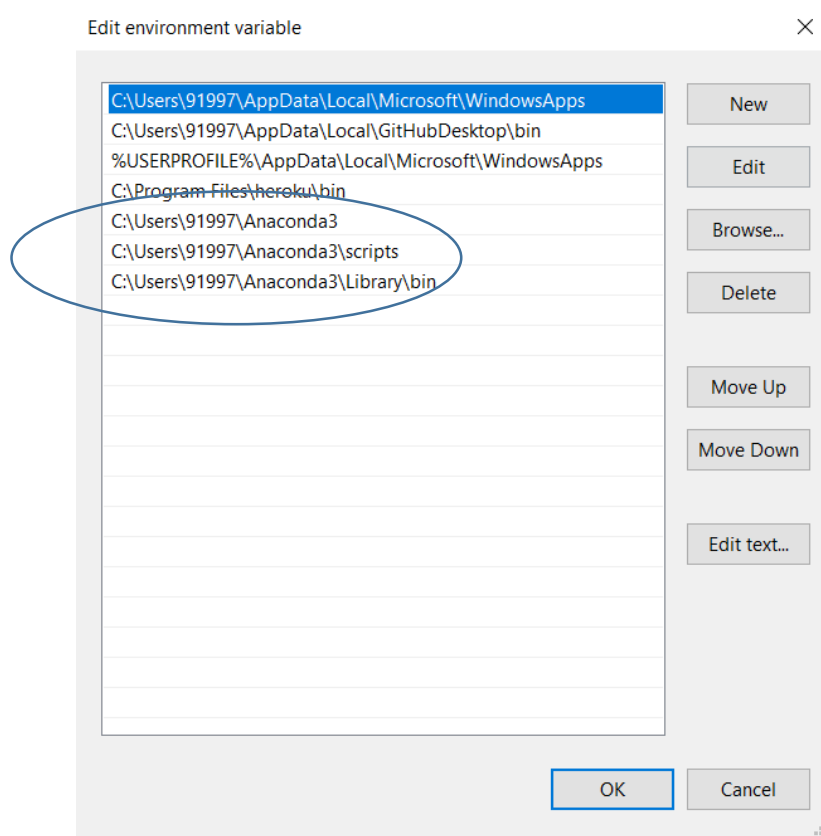
- 2) Add the following paths to the environment:

<Your users folder path>\Anaconda3

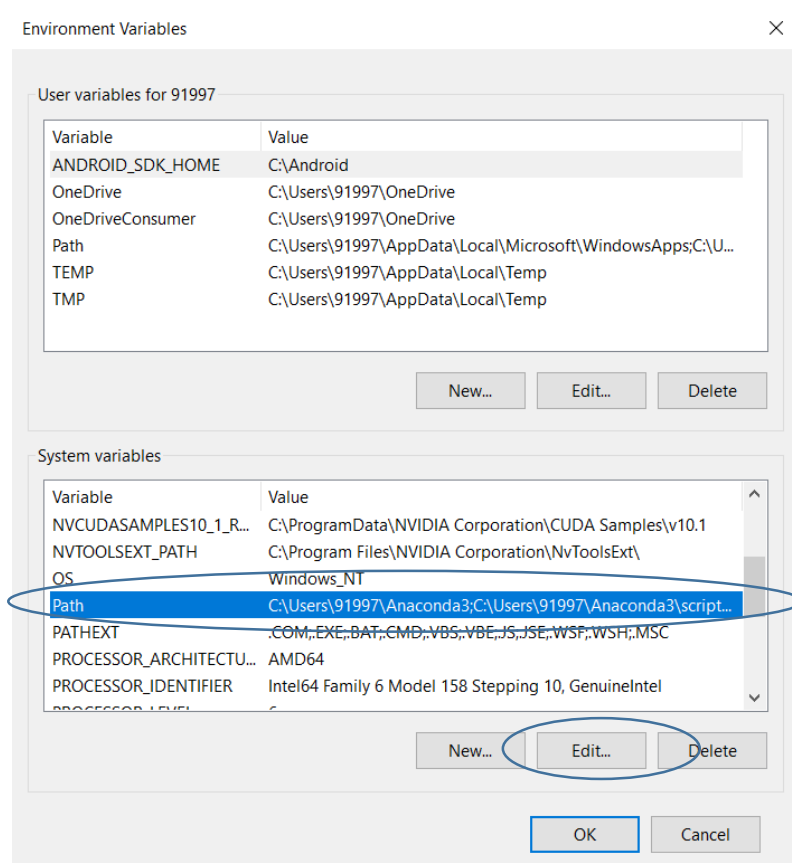
<Your users folder path>\Anaconda3\scripts

<Your users folder path>\Anaconda3\Library\bin

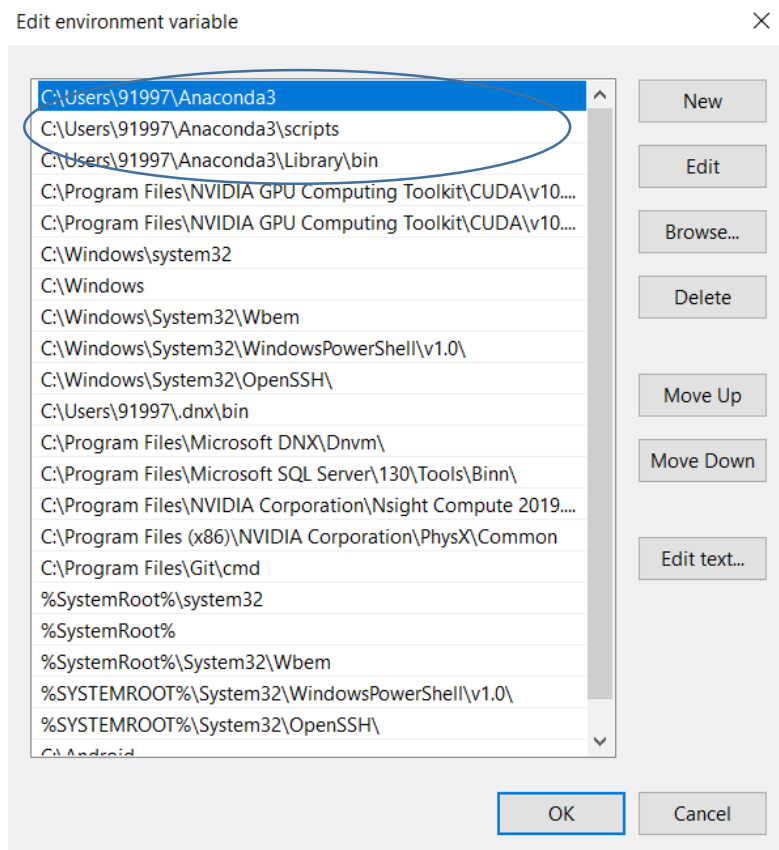
In the end you will have something like this:



Once done with this, repeat this entire process with System Variables in the 'Environment variables' window ie:



Add the same 3 variables here again and the end result should look like this:



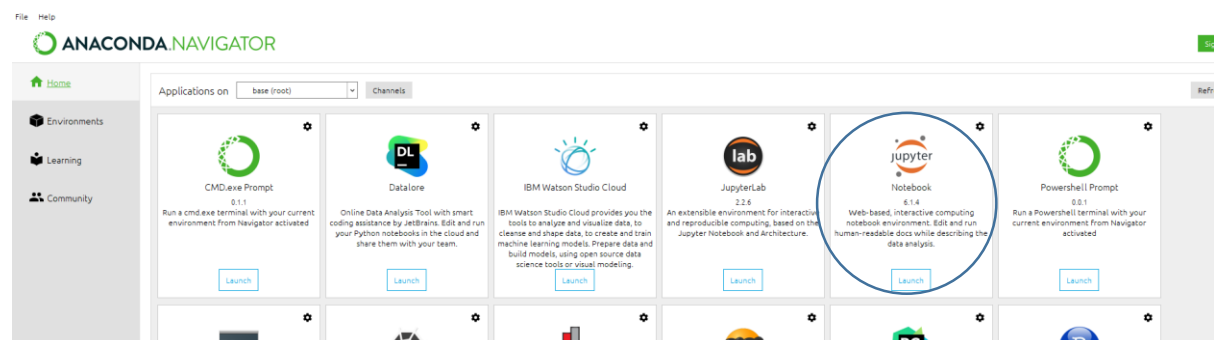
Step 4: Running the App (Finally)

Okay Mr/Miss Computer Programmer, now we should be all set to run the app.

Go to Start -> Search Jupyter Notebook and click on it

Or

Go to Start -> Anaconda Navigator -> Launch Jupyter



It should open up in your web browser i.e. chrome/ edge/ firefox etc.



Create a new Python 3 notebook in the folder of your choice.

Go to [CoWIN-Notifier/Vaccine-Notifier-Template.py at main · devpreet13/CoWIN-Notifier \(github.com\)](https://github.com/devpreet13/CoWIN-Notifier)

Copy the code from here to the Jupyter notebook you just created.

The default setting is for Delhi with age 45+, you can confirm with CoWIN portal that slots are available. You can edit the script as per your requirement and hit run.

Don't forget to add your Twilio details in this part of the code:

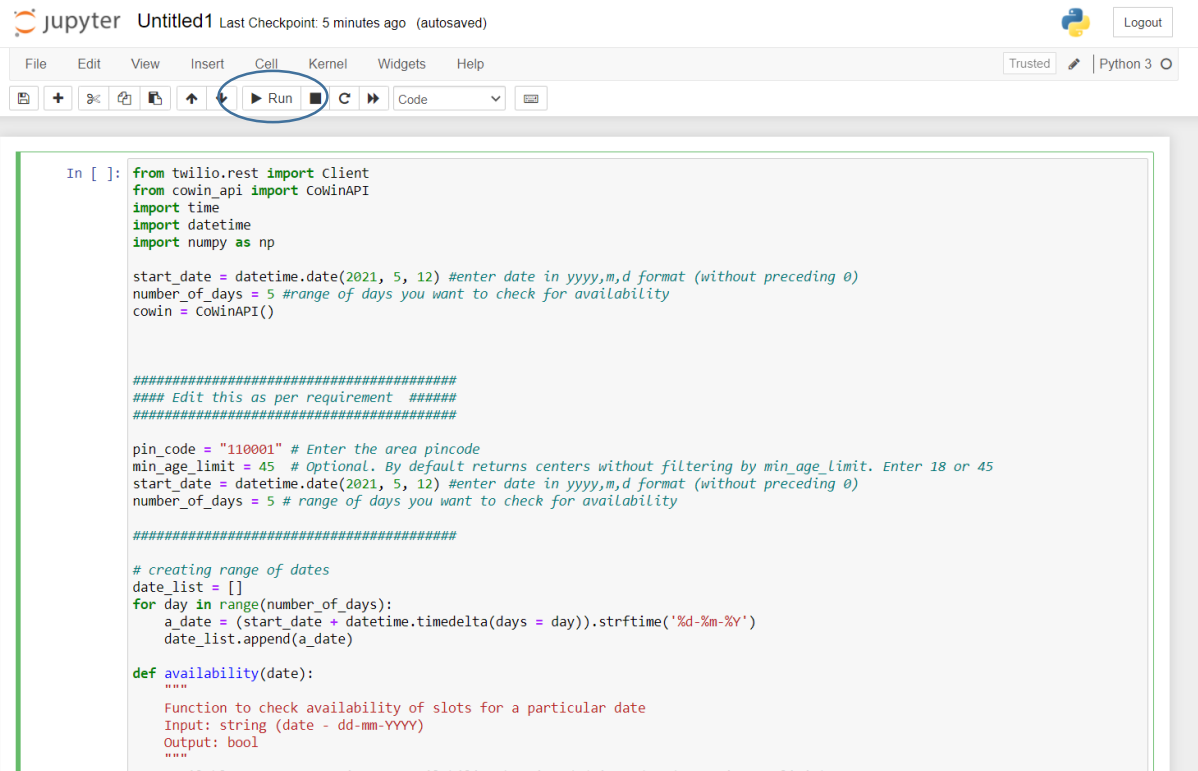
```
print('Slot Available')
i = 0
while i<10: # you will receive 10 messages if any slots are available
    account_sid = 'Enter Twilio SID'
    auth_token = 'Enter Twilio Authorisation Token'
    client = Client(account_sid, auth_token)

    #####
    ### enter details from twilio here ###
    #####

    message = client.messages \
                .create(
                    body="Vaccine Slot Available.",
                    from_='+123', # Enter Twilio Phone Number
                    to='+123' # Enter Your Phone Number
                )

    i += 1
```

All these details will be available in your Twilio account page. Refer step number 3.



The image shows a Jupyter Notebook interface with a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help) and a toolbar with icons for file operations and execution. The 'Run' button is circled in blue. The code in the notebook is as follows:

```
In [ ]: from twilio.rest import Client
        from covid_api import CovidAPI
        import time
        import datetime
        import numpy as np

        start_date = datetime.date(2021, 5, 12) #enter date in yyyy,m,d format (without preceding 0)
        number_of_days = 5 #range of days you want to check for availability
        covid = CovidAPI()

        #####
        ### Edit this as per requirement #####
        #####

        pin_code = "110001" # Enter the area pincode
        min_age_limit = 45 # Optional. By default returns centers without filtering by min age limit. Enter 18 or 45
        start_date = datetime.date(2021, 5, 12) #enter date in yyyy,m,d format (without preceding 0)
        number_of_days = 5 # range of days you want to check for availability

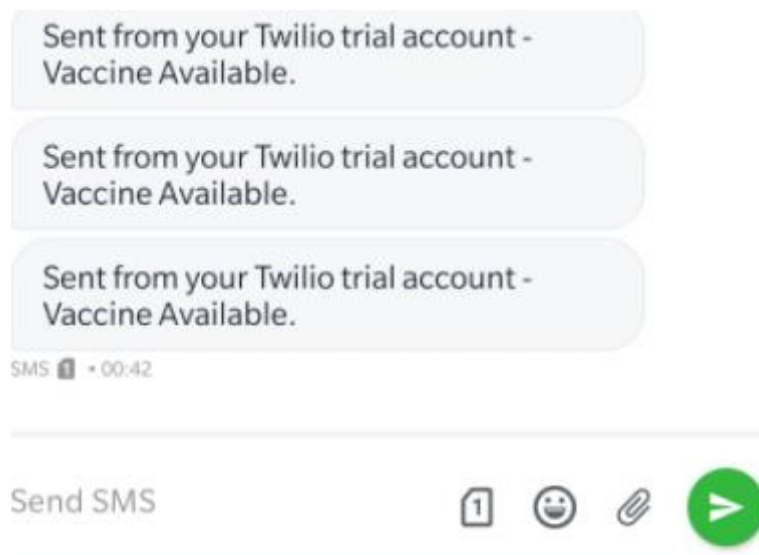
        #####

        # creating range of dates
        date_list = []
        for day in range(number_of_days):
            a_date = (start_date + datetime.timedelta(days = day)).strftime('%d-%m-%Y')
            date_list.append(a_date)

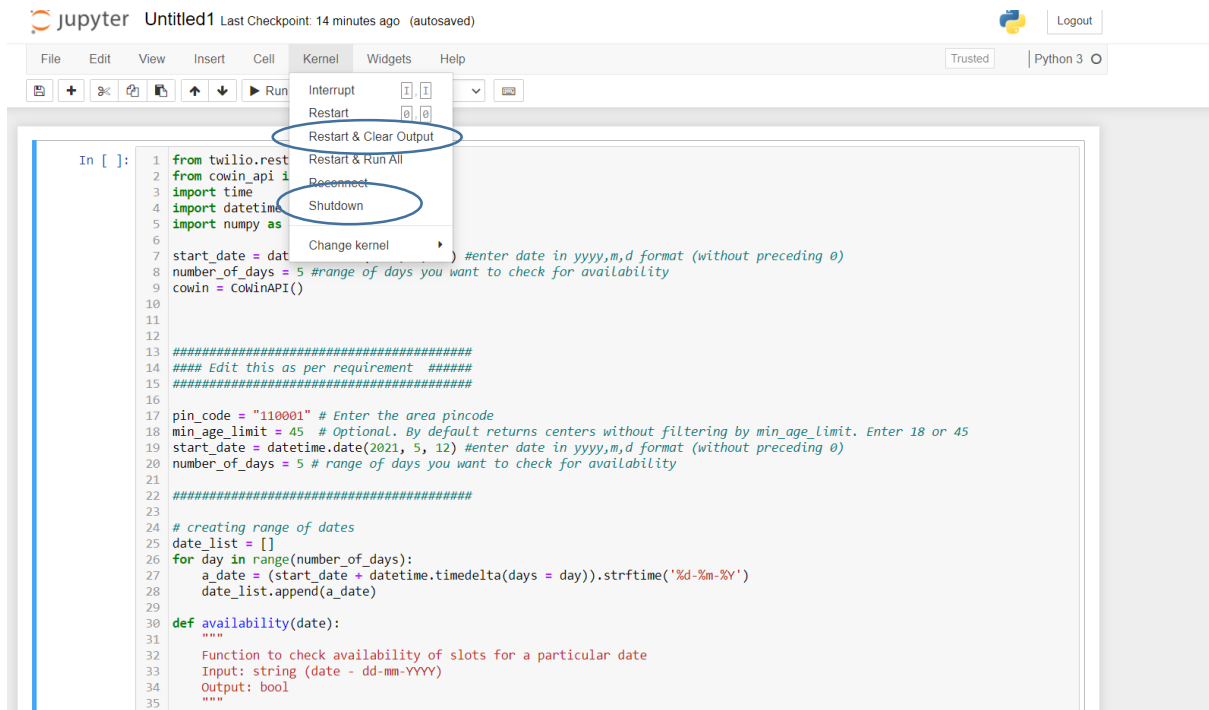
        def availability(date):
            """
            Function to check availability of slots for a particular date
            Input: string (date - dd-mm-yyyy)
            Output: bool
            """
```

The code will run every 60 seconds if slots are unavailable. You will need a proper internet connection. This process will keep running in the background and you can carry on with your life. In case slots are available you will receive a notification like this on your cell phone.

Try running it for an area where spots are available like Delhi, just to confirm if it is working.



Every time you change parameters like pincode, date etc on the script, stop it, shut it down and restart it from the top.



Please contact me on Instagram/Gmail (dpnd13@gmail.com) if there are any issues.