Step 1: create account in OpenWeatherMap.org

• As soon as we get logged into the application individual is provided with the API key through which one can access the current weather report.

Step 2: install python in the system.

• Install the "requests" module for the execution of the code

```
:\Users\Samruddhi\Desktop>python -m pip install requests
Collecting requests
 Downloading requests-2.25.1-py2.py3-none-any.whl (61 kB)
                                      61 kB 130 kB/s
Collecting certifi>-2017.4.17
 Downloading certifi-2020.12.5-py2.py3-none-any.whl (147 kB)
                                       147 kB 62 kB/s
Collecting chardet<5,>=3.0.2
 Downloading chardet-4.0.0-py2.py3-none-any.whl (178 kB)
                                      178 kB 15 kB/s
Collecting idna<3,>=2.5
 Downloading idna-2.10-py2.py3-none-any.whl (58 kB)
                                       58 kB 11 kB/s
Collecting urllib3<1.27,>=1.21.1
 Downloading urllib3-1.26.2-py2.py3-none-any.whl (136 kB)
                                      136 kB 18 kB/s
Installing collected packages: certifi, chardet, idna, urllib3, requests
Successfully installed certifi-2020.12.5 chardet-4.0.0 idna-2.10 requests-2.25.1 urllib3-1.26.2
 ARNING: You are using pip version 20.2.3; however, version 20.3.3 is available.
 ou should consider upgrading via the 'C:\Users\Samruddhi\AppData\Local\Programs\Python\Python39\python.exe -m pip install --upgrade pip' command.
 :\Users\Samruddhi\Desktop>C:\Users\Samruddhi\AppData\Local\Programs\Python\Python39\python.exe -m pip install --upgrade pip
Collecting pip
 Downloading pip-20.3.3-py2.py3-none-any.whl (1.5 MB)
                                     1.5 MB 37 kB/s
 installing collected packages: pip
 Attempting uninstall: pip
   Found existing installation: pip 20.2.3
   Uninstalling pip-20.2.3:
     Successfully uninstalled pip-20.2.3
 uccessfully installed pip-20.3.3
```

Step 3: write the code for fetching the current weather data

• Put your API key to fetch

```
# Python program to find current
# weather details of any city
# using openweathermap api
# import required modules
import requests
import json, sys
# Enter your API key here
api_key = "5fbe120f25b1e772aaab7a5926eb0292"
// this api key is generated after the account is created.
# base_url variable to store url
base_url = "http://api.openweathermap.org/data/2.5/weather?"
# Give city name
city_name = input("Enter city name : ")
# complete_url variable to store
# complete url address
complete_url = base_url + "appid=" + api_key + "&q=" + city_name
```

```
# get method of requests module
# return response object
response = requests.get(complete_url)
# json method of response object
# convert json format data into
# python format data
x = response.json()
# Now x contains list of nested dictionaries
# Check the value of "cod" key is equal to
# "404", means city is found otherwise,
# city is not found
if x["cod"] != "404":
  # store the value of "main"
  # key in variable y
  y = x["main"]
  # store the value corresponding
  # to the "temp" key of y
  current_temperature = y["temp"]
```

```
# store the value corresponding
# to the "pressure" key of y
current_pressure = y["pressure"]
# store the value corresponding
# to the "humidity" key of y
current_humidiy = y["humidity"]
# store the value of "weather"
# key in variable z
z = x["weather"]
# store the value corresponding
# to the "description" key at
# the 0th index of z
weather_description = z[0]["description"]
# print following values
print(" Temperature (in kelvin unit) = " +
          str(current_temperature) +
    "\n atmospheric pressure (in hPa unit) = " +
          str(current_pressure) +
```

else:

```
print (" City Not Found ")
```

Step 4: Run the code and enter the city for which you desire to know the weather report

