

## Develop a Python script

Date	14 November 2022
Team ID	PNT2022TMID18159
Project Name	Smart solution for railways
Maximum Marks	4 Marks

### Smart solution for railways

Create a code snippet using python to

1. Extract weather data from OpenWeatherMap using APIs
2. Send the extracted data to the cloud
3. Receive data from the cloud and view it in the python compiler

The screenshot shows a web browser displaying the OpenWeatherMap Weather dashboard. The browser's address bar shows the URL 'openweathermap.org/weather-dashboard'. The page features the OpenWeatherMap logo, a search bar, and a navigation menu with links to Guide, API, Dashboard, Marketplace, Pricing, Maps, Our Initiatives, Partners, Blog, For Business, and S.VIS... The main content area has the heading 'Weather dashboard' and a subheading 'OpenWeather Dashboard'. Below this, it says 'A visual tool for working with weather data and timely tracking of dangerous phenomena'. There is a large illustration of two people looking at a dashboard with various charts and graphs. A red button labeled 'Try the Dashboard' is visible. At the bottom, there is a cookie consent banner with 'Allow all' and 'Manage cookies' buttons. The Windows taskbar at the bottom shows the date and time as 12:52 on 18-11-2022.

Members

Online Python Compiler (Interpr...

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Python Online Compiler

Interactive Python Course

main.py

Run

```
1 import requests
2 a="https://api.openweathermap.org/data/2.5/weather?q=Tirunelveli
   ,IN&appid=39281d350a0030306ea348f0f9eb4a72"
3 r=requests.get(url = a)
4 data = r.json()
5 print (r)
6 print (data)
```

Shell

Clear

<Response [200]>
{
 'coord': {'lon': 77.7, 'lat': 8.7333},
 'weather': [{'id': 804, 'main':
 'Clouds', 'description': 'overcast clouds', 'icon': '04d'}],
 'base': 'stations',
 'main': {'temp': 303.1, 'feels\_like': 305.5,
 'temp\_min': 303.1, 'temp\_max': 303.1, 'pressure': 1013, 'humidity':
 58, 'sea\_level': 1013, 'grnd\_level': 1008},
 'visibility': 10000,
 'wind': {'speed': 3.54, 'deg': 31, 'gust': 4.05},
 'clouds': {'all': 100},
 'dt': 1668748109, 'sys': {'type': 1, 'id': 9252, 'country':
 'IN', 'sunrise': 1668732187, 'sunset': 1668774345, 'timezone':
 19800, 'id': 1254361, 'name': 'Tirunelveli', 'cod': 200}
}

Waiting for bcp.crdctrl.net...

29°C  
Mostly sunny

Search

ENG  
IN

10:39  
18-11-2022