

## Develop a Python script

Date	12 September 2022
Team ID	PNT2022TMIDI3605
Project Name	Project – 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 the OpenWeatherMap website. At the top, there's a navigation bar with links like 'Weather in your city', 'Guide', 'API', 'Dashboard', 'Marketplace', 'Pricing', 'Maps', 'Our Initiatives', 'Partners', 'Blog', 'For Business', 'yoge...', and 'Support'. Below the navigation bar, a green message box states: 'We have sent the confirmation link to yogeshk0333@gmail.com. Please check your email.' Underneath, there's a section titled 'Historical weather for any location' with a description: 'Our new technology, Time Machine, has allowed us to enhance the data in the Historical Weather Collection.' It lists two bullet points: 'Historical weather data available for ANY coordinate' and 'The depth of historical data have been extended to 40 YEARS'. Below this, it says 'You can download data from Personal account or contact us to order it.' There are two buttons: 'Learn more' and 'Go to purchase'. At the bottom, there's a 'Weather Dashboard' section with a description: 'The OpenWeather Dashboard is a lightweight and flexible visual tool for our customers who would'. The Windows taskbar is visible at the bottom with the time 12:54 PM.

The screenshot shows the OpenWeatherMap website with the URL 'openweathermap.org/find?utf8=&q=chennai'. The page title is 'Weather in your city'. There's a search bar with 'chennai' entered and a 'Search' button. Below the search bar, the weather for Chennai, IN is displayed: 'scattered clouds', '31°C temperature from 31 to 31 °C, wind 4.63 m/s, clouds 40 %, 1010 hpa', and 'Geo coords [13.0878, 80.2785]'. Below the weather information, there's a section titled 'Search engine is very flexible. How it works:' with a bullet point: 'To make it more precise put the city's name, comma, 2-letter country code (ISO3166). You will get all proper cities in chosen country. The order is important - the first is city name then comma then country. Example - London, GB or New York, US.' At the bottom, there's a 'Plesk' advertisement with the text 'Control & Simplify your WebOps' and a 'SIGN UP' button. The Windows taskbar is visible at the bottom with the time 02:14 PM and date 04-11-2022.

