

Working with APIs

```
In [2]: import warnings
import sys
if not sys.warnoptions:
    warnings.simplefilter("ignore")
```

```
In [8]: import requests

# Function to fetch weather data
def fetch_weather_data(city, api_key):
    try:
        # API endpoint
        url = f"http://api.openweathermap.org/data/2.5/weather?q={city}&appid={api_key}&units=metric"

        # Sending a GET request
        response = requests.get(url)

        if response.status_code == 200:
            data = response.json()

            # Extracting required data
            city_name = data['name']
            temperature = data['main']['temp']
            weather_condition = data['weather'][0]['description']
            humidity = data['main']['humidity']

            # Displaying the data
            print(f"Weather in {city_name}:\n")
            print(f"Temperature: {temperature}°C")
            print(f"Condition: {weather_condition.capitalize()}")
            print(f"Humidity: {humidity}%")
        else:
            print(f"Error: Unable to fetch weather data. Status Code: {response.status_code}")

    except Exception as e:
        print(f"An error occurred: {e}")

# Main function
```

```
if __name__ == "__main__":  
    # Input city name  
    city = input("Enter the name of the city: ").strip()  
  
    # Your OpenWeatherMap API key  
    api_key = '74c6d7e557d52383567195e1bee86291' # Replace with your API key  
  
    # Fetch and display weather data  
    fetch_weather_data(city, api_key)
```

Weather in Mumbai:

Temperature: 28.99°C

Condition: Smoke

Humidity: 48%