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**Roll Number: 45**

**Experiment Number: 7.1**

**Title: WeatherAPI**

**Theory:** The code below uses an api key of openweathermap.org to extract data of any city and then prints the details required as per the question.

**Code:**

**import requests**

**import json**

**api\_key = '918e5c9c6f36588656bd2b19701a3044'**

**base\_url = *f*"http://api.openweathermap.org/data/2.5/forecast?id=524901&appid=4fd6cc6793bbdf879edd556a2b138547"**

**city=*str*(input("Enter city to search: "))**

**dict\_para={'q':city, 'api':api\_key}**

**response=requests.get(*url*=base\_url, *params*=dict\_para)**

**data=response.json() #extraction of data**

**#print(data) #USED to find where to extrapolate the data from.**

**print("Temperature: ",data['list'][0]['main']['temp'])**

**print("Pressure: ",data['list'][0]['main']['pressure'])**

**print("humidity: ",data['list'][0]['main']['humidity'])**

**Output:(screenshot):**

**Conclusion:**

**The code correctly uses an api key that gives real time data of any city (based on user input) and returns it’s temperature, pressure and humidity.**