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I4214
LP – III (B4)

Assignment No. 08

Code:

```
# importing modules
import requests
import json

# type your API KEY Here.
api_key = "5230b663e24373c4ceac97f452783f2c"
base_url = "https://api.openweathermap.org/data/2.5/weather?"

# taking input "city name" from user
city_name = input("Enter the city name: ")

# complete_url variable to store the complete_url address
complete_url = base_url + "appid" + api_key + "&q=" + city_name

# get methods of requests module retruns respons 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 coressponding to the "temp" key of y
   current_temperature = y["temp"]

   # store the value coressponding to the "pressure" key of y
   current_pressure = y["pressure"]

   # store the value coressponding to the "humidity" key of y
   current_humidity = y["humidity"]

   # store the value of "weather" key in variable z
   z = x["weather"]

   # store the value coressponding to the "description" key
   # at the 0th index of z
   weather_description = z[0]["description"]

   # print the following values
   print(" Temperature(in kelvin unit)= " +
       str(current_temperature) +
       "\n atmospheric pressure (in hPa unit) = " +
       str(current_pressure) +
       "\n humidity (in percantage) = " +
```

```
        str(current_humidity) +
        "\n description = " +
        str(weather_description))
else:
   print("City Not Found")
```

OUTPUT:

```
Enter city name : Pune
 Temperature (in kelvin unit) = 312.15
 atmospheric pressure (in hPa unit) = 996
 humidity (in percentage) = 40
 description = haze
```

Method 2: Using BeautifulSoup and request module

```
from bs4 import BeautifulSoup
import requests
headers = {
        'User-Agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/58.0.3029.110 Safari/537.3'}


def weather(city):
        city = city.replace(" ", "+")
        res = requests.get()

        f'https://www.google.com/search?q={city}&oq={city}&aqs=chrome.0.35i39l2j0l4j46j69i60.6128j1j7&sou
rceid=chrome&ie=UTF-8', headers=headers)
        print("Searching...\n")
        soup = BeautifulSoup(res.text, 'html.parser')
        location = soup.select('#wob_loc')[0].getText().strip()
        time = soup.select('#wob_dts')[0].getText().strip()
        info = soup.select('#wob_dc')[0].getText().strip()
        weather = soup.select('#wob_tm')[0].getText().strip()
        print(location)
        print(time)
        print(info)
        print(weather+"°C")


city = input("Enter the Name of City -> ")
city = city+" weather"
weather(city)
print("Have a Nice Day:)")
```

OUTPUT:

```
Enter the Name of City -> Nanded
Searching...

Nanded, Maharashtra
Monday, 12:00 am
Cloudy
27°C
Have a Nice Day:)
```