DEVELOP A PYTHON SCRIPT

Date	06 November 2022
Team ID	PNT2022TMID25689
Project Name	Project-Smart Farmer-IoT Based Smart Farming Application
Maximum Marks	4 Marks

Program:

```
# Enter your API key here

api_key = "Your_API_Key"


# base_url variable to store url base_url =

"http://api.openweathermap.org/data/2.5/weather?"


# Give city name city_name =

input("Enter city name : ")


# complete_url variable to store # complete url address

complete_url = base_url + "appid=" + api_key + "&q=" + city_name


# get method of requests module #

return response 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 corresponding #
    to the "temp" key of y
    current_temperature =
    y["temp"]

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

    # store the value corresponding
    # 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 corresponding
    # to the "description" key at
    # the 0th index of z
```

```
    weather_description = z[0]["description"]

    # print following values print("
    Temperature (in kelvin unit) = " +
    str(current_temperature) +
        "\n atmospheric pressure (in hPa unit) = " +
                str(current_pressure) +
        "\n humidity (in percentage) = " +
                str(current_humidity) +
        "\n description = " +
                str(weather_description))

else: print(" City Not
    Found ")
```

OUTPUT:

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