

## **DEVELOP A PYTHON SCRIPT**

Date	7 november 2022
Team ID	PNT2022TMID00966
Project Name	Project- Real time River water quality monitoring and control system
Maximum Marks	4 Marks

```
# 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
```