

DEVELOP A PYTHON SCRIPT

Date	06 November 2022
Team ID	PNT2022TMID31754
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

```