### **ASSIGNMENT 02**

ASSIGNMENT DATE	MAY 01 2023
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# PROJECT TITLE

## **IOT BASED WEATHER ADAPTIVE STREET LIGHTING SYSTEM**

**ASSIGNMENT 02** 

BUILD PYTHON CODE, GENERATE TEMPERATURE AND HUMIDITY VALUES

(USING RANDOM FUNCTIONS TO GENERATE VALUES) AND

WRITE A CONDITION TO DETECT AN ALARM IN CASE OF HIGH TEMPERATURE

AND HIGH HUMIDITY.

#### CODE:

```
'''Build a python code, assume u get temp and humidity values
  (generated with random function to a variable) and write a
conditon to continuously detect alarm in
  case of high temperature'''
#import the necessary package!
import random
from time import *
gate=True
#input the city name
def run_city():
  city = input('input the city name')
  print(city)
# or you can also hard-code the value

#Display the message!
  print('Displaying Weater report for: ' + city)
```

```
print("Temperature =", temperature, "Humidity =", humidity)
```

### **OUTPUT:**

```
Temperature = 15 Humidity 16
Temperature = 8 Humidity 27
Temperature = 29 Humidity 45
Temperature = 29 Humidity 45
Temperature = 24 Humidity 45
Temperature = 42 Humidity 45
Temperature = 42 Humidity 47
Temperature = 42 Humidity 17
Temperature = 42 Humidity 17
Temperature = 42 Humidity 17
Temperature = 43 Humidity 17
Temperature = 44 Humidity 17
Temperature = 45 Humidity 17
Temperature = 45 Humidity 17
Temperature = 16 Humidity 18
Temperature = 16
```







