## **Assignment 2**

## IOT Assignment Topic: Assignment on temperature and humidity sensing and alarm automation using python

## **CODE:**

```
import random
from time import sleep

while True:
    temperature=round(random.uniform(10, 50),2)
    humidity=round(random.uniform(10, 100),2)
    print("\nTemperature =", temperature,"degree celsius")
    print("Humidity = ",humidity,"%")
    if(temperature>30):
        print("STATE : ALARM ON")
    else:
        print("STATE : ALARM OFF")
    sleep(5)
```

## **OUTPUT:**

```
[] G Run
       1 import random
                                                                                             Temperature = 23.1 degree celsius
                                                                                             Humidity = 89.3 %
       2 from time import sleep
                                                                                             STATE : ALARM OFF
                                                                                             Temperature = 22.04 degree celsius
(
             temperature=round(random.uniform(10, 50),2)
                                                                                             Humidity = 92.67 %
                                                                                            STATE : ALARM OFF
              humidity=round(random.uniform(10, 100),2)
              print("\nTemperature =", temperature,"degree celsius")
                                                                                             Temperature = 30.88 degree celsius
鱼
                                                                                            Humidity = 64.37 %
              print("Humidity = ",humidity,"%")
             if(temperature>30):
                                                                                            STATE : ALARM ON
       9 +
10
                 print("STATE : ALARM ON")
                                                                                            Temperature = 16.29 degree celsius
                                                                                            Humidity = 48.31 %
      11 -
                print("STATE : ALARM OFF")
      12
                                                                                             STATE : ALARM OFF
      13
              sleep(5)
                                                                                             Temperature = 49.21 degree celsius
                                                                                             Humidity = 37.08 %
STATE : ALARM ON
                                                                                             Temperature = 42.58 degree celsius
                                                                                             Humidity = 46.55 %
5
                                                                                             STATE : ALARM ON
                                                                                             Temperature = 33.2 degree celsius
                                                                                             Humidity = 67.1 %
                                                                                             STATE : ALARM ON
                                                                                             Temperature = 43.76 degree celsius
                                                                                            Humidity = 83.78 %
                                                                                            STATE : ALARM ON
```