

# **KCG COLLEGE OF TECHNOLOGY**

## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

### **IOT ASSIGNMENT**

**TOPIC: IoT BASED SMART CROP PROTECTION  
SYSTEM FOR AGRICULTURE**

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#### **ASSIGNMENT QUESTION:**

**Build a python code, assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.**

## **PYTHON CODE:**

```
import
randomimport
time
while(1!=0):
    temperature =
    random.random()humidity =
    random.random()
    #round(temperature,2) #round(humidity,2)
    ("print Temperature: ", "%.5f" %
    temperature)print("Humidity: ", "%.5f" %
    humidity) time.sleep(2)
    if (temperature > 0.7):
        print("high temperature")
    if ( humidity >0.7):
        print("high humidity")
    print("")
```

# EXECUTION RESULT

## PROGRAM

```
file  edit  format  run  options  window  help
import random
import time
while(1!=0):
    temperature = random.random()
    humidity = random.random()
    #round(temperature,2) #round(humidity,2)
    print("Temperature: ", "%.5f" % temperature)
    print("Humidity: ", "%.5f" % humidity)
    time.sleep(2)
    if (temperature > 0.7):
        print("high temperature")
    if ( humidity >0.7):
        print("high humidity")
    print("")
```

## OUTPUT

Temperature: 0.81853  
Humidity: 0.97255  
high temperature  
high humidity

Temperature: 0.15472  
Humidity: 0.05986

Temperature: 0.62464  
Humidity: 0.32342

Temperature: 0.83487  
Humidity: 0.76008  
high temperature  
high humidity

Temperature: 0.14701  
Humidity: 0.48039

Temperature: 0.79227  
Humidity: 0.24788  
high temperature

Temperature: 0.87672  
Humidity: 0.33046  
high temperature

Temperature: 0.67236  
Humidity: 0.16511

Temperature: 0.14797  
Humidity: 0.59022

Temperature: 0.51479  
Humidity: 0.54463

Temperature: 0.25142  
Humidity: 0.12738

Temperature: 0.17346  
Humidity: 0.24678

Temperature: 0.37653  
Humidity: 0.64490