## AS-SALAM COLLEGE OF ENGINEERING &TECHNOLOGY THIRUMANGALAKUDI-ADUTHURAI

**IOT Assignment: Assignment no.2** 

Topic: Build a python code, Assume u 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.

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## CODE:

import time

import sys

import ibmiotf.application

import ibmiotf.device

import random

#Provide your IBM Watson Device Credentials
organization = "bxobbs"
deviceType = "b5ibm"

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deviceId = "b5device"
authMethod = "token"
authToken = "b55m1eibm"
# Initialize GPIO
def myCommandCallback(cmd):
  print("Command received: %s" % cmd.data['command'])
  status=cmd.data['command']
  if status=="lighton":
    print ("led is on")
  else:
    print ("led is off")
  #print(cmd)
try:
      deviceOptions = {"org": organization, "type": deviceType, "id": deviceId,
"auth-method": authMethod, "auth-token": authToken}
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deviceCli = ibmiotf.device.Client(deviceOptions)
      #.....
except Exception as e:
      print("Caught exception connecting device: %s" % str(e))
      sys.exit()
# Connect and send a datapoint "hello" with value "world" into the cloud as an
event of type "greeting" 10 times
deviceCli.connect()
while True:
    #Get Sensor Data from DHT11
    temp=random.randint(0,100)
    Humid=random.randint(0,100)
    data = { 'temp' : temp, 'Humid': Humid }
    #print data
    def myOnPublishCallback():
      print ("Published Temperature = %s C" % temp, "Humidity = %s %%" %
Humid, "to IBM Watson")
success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on_publish=myOnPublishCallback)
    if not success:
```

```
print("Not connected to IoTF")
time.sleep(1)
deviceCli.commandCallback = myCommandCallback
```

# Disconnect the device and application from the cloud deviceCli.disconnect()