## **DEVELOP THE PYTHON CODE**

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Team ID	PNT2022TMID25345
Project Name	Gas Leakage Monitoring and Alerting System
Maximum Mark	4 marks

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## **PYTHON CODE:**

import time import sys

import ibmiotf.application

import ibmiotf.device

import random

#Provide your IBM Watson Device Credentials

organization = "5py6q9" deviceType =

"Weather\_now" deviceId = "Weather1234"

authMethod = "token" authToken =

"XeJFia7\_@@t9@@eq\_?"

# Initialize GPIO

def myCommandCallback(cmd): print("Command

received: %s" % cmd.data['command'])

status=cmd.data['command'] if status=="lighton":

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print ("led is on")
elif status == "lightoff":
print ("led is off") else:
    print ("please send proper command")
         deviceOptions = {"org": organization, "type":
try:
deviceType, "id": deviceId, "auth-method": authMethod, "auth-
token": authToken}
                        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(90,110)
    Humid=random.randint(60,100)
    data = { 'temp' : temp, 'Humid': Humid }
                   def myOnPublishCallback():
    #print data
                                                    print
("Published Temperature = %s C" % temp, "Humidity = %s
%%" % Humid, "to IBM Watson")
    success = deviceCli.publishEvent("IoTSensor", "json", data, gos=0,
on_publish=myOnPublishCallback)
                                     if not success:
print("Not connected to IoTF")
                                 time.sleep(10)
```

