## **DEVELOP A PYTHON CODE**

PROJECT NAME	INDUSTRIAL SPECIFIC FIRE MANAGEMENT SYSTEM
TEAM ID	PNT2022TMID31383

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "ge3f42"
deviceType = "Arduino"
deviceId = "1234"
authMethod = "token"
authToken = "FfR(Gr?Vsx?4c-*k45"
# Initialize GPIO
def myCommandCallback(cmd):
  print("Command received: %s" % cmd.data['command'])
  status=cmd.data['command']
  if status=="lighton":
    print ("led is on")
  elif status == "lightoff":
    print ("led is off")
    print ("please send proper command")
deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "auth-token": authToken}
deviceCli = ibmiotf.device.Client(deviceOptions)
except Exception as e:
 print("Caught exception connecting: %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 }
    #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(10)
    deviceCli.commandCallback = myCommandCallback \\
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```