TEAM ID:	PNT2022TMID06928
PROJECT TITLE:	INDUSTRY SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM

SPRINT 3

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
# Provide your IBM Watson Device Credentials
organization = "gh6uoi"
deviceType = "fire"
deviceId = "fire123"
authMethod = "token"
authToken = "0123456789"
# print(cmd)
try:
  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 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 ()
def myCommandCallback(cmd) :
```

```
print ( "Command received: %s" % cmd.data['command'] )
  status = cmd.data['command']
def myCommandCallback(cmd) :
  print ( "Command received: %s" % cmd.data['command'] )
  status = cmd.data['command']
def myCommandCallback(cmd) :
  print ( "Command received: %s" % cmd.data['command'] )
  status = cmd.data['command']
while True:
  # Get Sensor Data from DHT11
  temp = random.randint (0, 100)
  gas = random.randint (60, 200)
  flame = random.randint (60, 200)
  data = { 'temp' : temp, 'Gas' : gas, 'Flame': flame}
  # print data
  def myOnPublishCallback() :
    print ("Published Temperature = %s C" % temp, "Gas = %s %%" % gas, "Flame = %s %%" % flame,
"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
# Initialize GPIO
  if temp > 50:
    print ("buzzer is on")
  else:
    print ("buzzer is off")
```

```
if flame > 100 :
    print ( "sprinklers are on" )
else :
    print ( "sprinklers are off" )
if gas>100:
    print ( "exhaust fan is on" )
else :
    print ( "exhaust fan is off" )
# Disconnect the device and application from the cloud deviceCli.disconnect ()
```

OUTPUT:



