PROJECT DEVELOPMENT PHASE

SPRINT-1

Team ID	PNT2022TMID31383
Project Name	Industrial Specific Fire Management System

PYTHON CODE:

```
import time
```

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

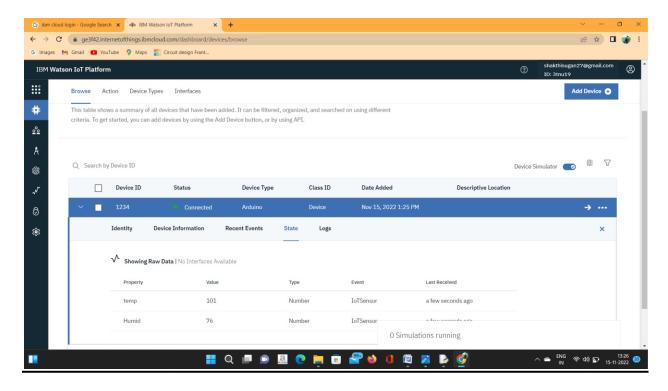
def myCommandCallback(cmd):

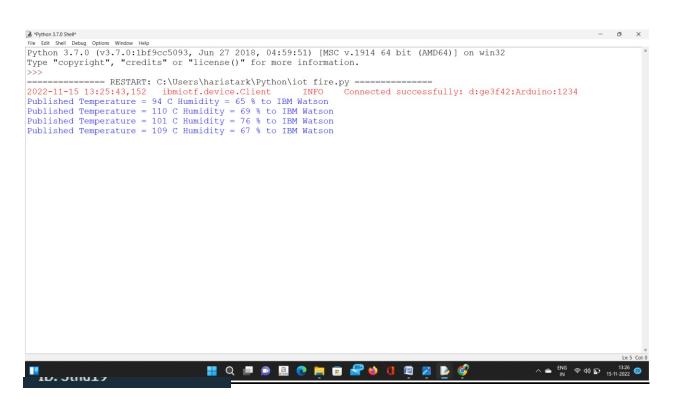
print("Command received: %s" % cmd.data['command'])

```
status=cmd.data['command']
  if status=="lighton":
    print ("led is on")
  elif status == "lightoff":
    print ("led is off")
  else:
    print ("please send proper command")
try:
     deviceOptions = {"org": organization, "type": deviceType, "id":
deviceld, "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()
```

OUTPUT:





RESULT: The python code is executed successfully.