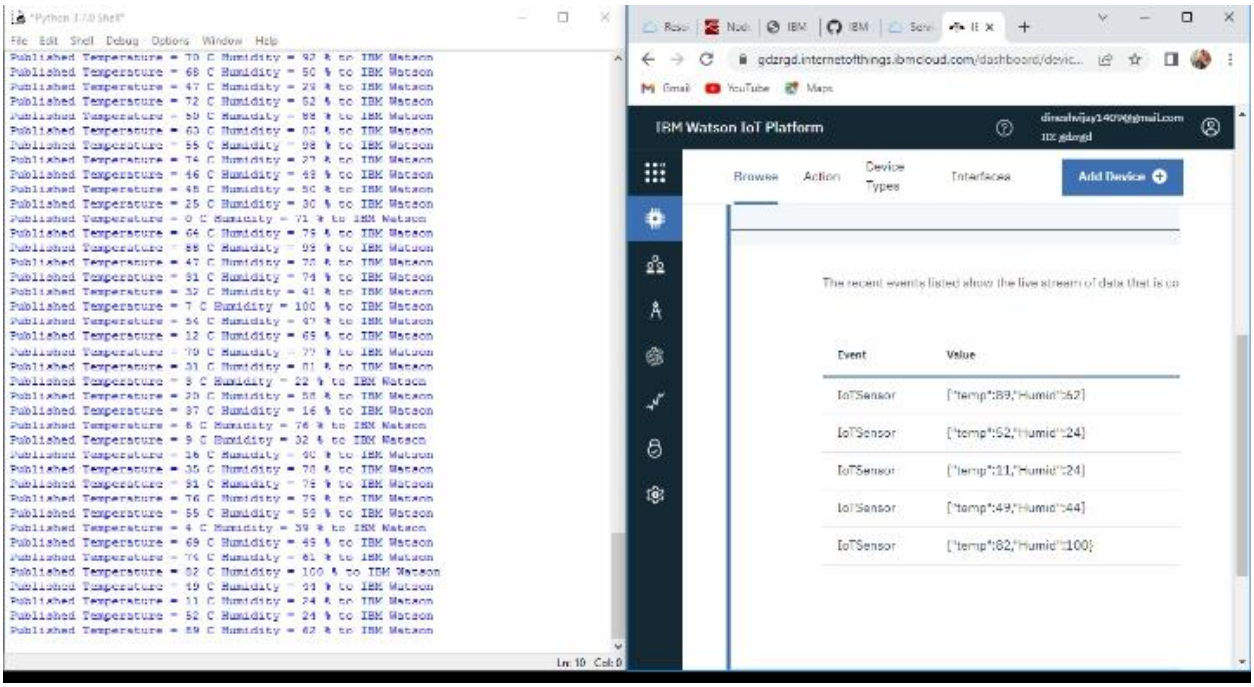
Sprint 3

Python code:

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "8ahq3z"
deviceType = "SENSORs"
deviceId = "2211"
authMethod = "token"
authToken = "22112001"
# 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}
        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(-30,100)
    Humid=random.randint(10,90)

    data = { 'temp' : temp, 'Humid': Humid }
    #print data
    def myOnPublishCallback():
      print ("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()
```


File Edit Shell Debug Options Window Help
Published Temperature = 68 C Humidity = 50 % to IBM Watson
Published Temperature = 47 C Humidity = 29 % to IBM Watson
Published Temperature = 72 C Humidity = 62 % to IBM Watson
Published Temperature = 63 C Humidity = 83 % to IBM Watson
Published Temperature = 74 C Humidity = 27 % to IBM Watson
Published Temperature = 46 C Humidity = 48 % to IBM Watson
Published Temperature = 45 C Humidity = 50 % to IBM Watson
Published Temperature = 25 C Humidity = 30 % to IBM Watson
Published Temperature = 64 C Humidity = 78 % to IBM Watson
Published Temperature = 47 C Humidity = 72 % to IBM Watson
Published Temperature = 91 C Humidity = 74 % to IBM Watson
Published Temperature = 32 C Humidity = 41 % to IBM Watson
Published Temperature = 7 C Humidity = 100 % to IBM Watson
Published Temperature = 12 C Humidity = 65 % to IBM Watson
Published Temperature = 31 C Humidity = 81 % to IBM Watson
Published Temperature = 37 C Humidity = 16 % to IBM Watson
Published Temperature = 9 C Humidity = 32 % to IBM Watson
Published Temperature = 35 C Humidity = 70 % to IBM Watson
Published Temperature = 76 C Humidity = 79 % to IBM Watson
Published Temperature = 55 C Humidity = 59 % to IBM Watson
Published Temperature = 69 C Humidity = 45 % to IBM Watson
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Published Temperature = 52 C Humidity = 24 % to IBM Watson
Published Temperature = 89 C Humidity = 62 % to IBM Watson
Ln: 10 Col: 0
gdzrgd.internetofthings.ibmcloud.com/dashboard/devic...
Gmail
YouTube
Maps
IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
Add Device
Event
Value
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