ASSIGNMENT 4

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MIT APP INVENTOR —----> Mobile App Layout:

Code:

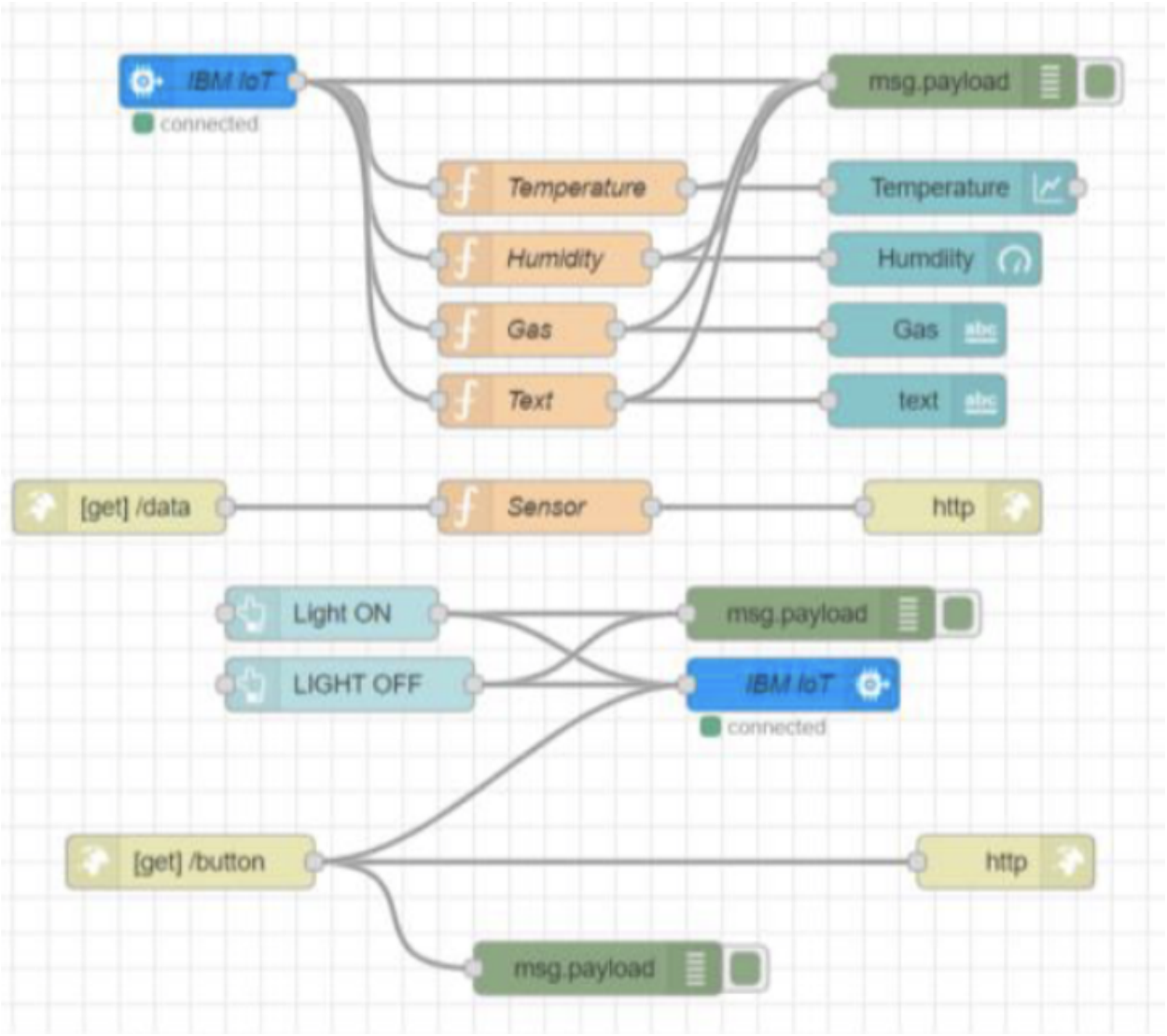
```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "ed4xjr",
        "typeId": "device",
        "deviceId":"d1"
    },
    "auth": {
        "token": "12345678"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']
    print()
    if m == "lighton":
        print("Light is Switched ON")
    elif m == "lightoff":
        print("Light is Switched OFF")
    print()
    print(m)

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    gas=random.randint(0,100)
    text = input('')
    myData={'temperature':temp, 'humidity':hum, 'gas':gas, 'text':text}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

Structure of the program:



msg.payload =

“temperature":global.get("t"),

"humidity": global.get("h"),

"gas": global.get()

"text": global.get(

return msg;