ASSIGNMENT-3

Name: Y.Sushwanth Reddy

Reg.no:19BEC0271

PYTHON CODE:

```
import wiotp.sdk.device
import time
import random
myConfig = {
 "identity": {
 "orgId": "0jg4rj",
 "typeId": "sivdevice",
 "deviceId":"9347"
 },
 "auth": {
 "token": "Sushwanth2005"
 }
}
def myCommandCallback(cmd):
 print("Message received from IBM IoT Platform: %s" %
cmd.data['command'])
 m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()while True:
 water_level=random.randint(0,100)
```

```
 intensity=random.randint(0,100)
 myData={'water_level':water_level, 'intensity':intensity}
 client.publishEvent(eventId="status", msgFormat="json", data=myData,
qos=0, onPublish=None)
 print("Published data Successfully: %s", myData)
 client.commandCallback = myCommandCallback
 time.sleep(2)
client.disconnect()
```

CODE:

asses.py - C:\Users\14379\AppData\Local\Programs\Python\Python39\asses.py (3.9.6)

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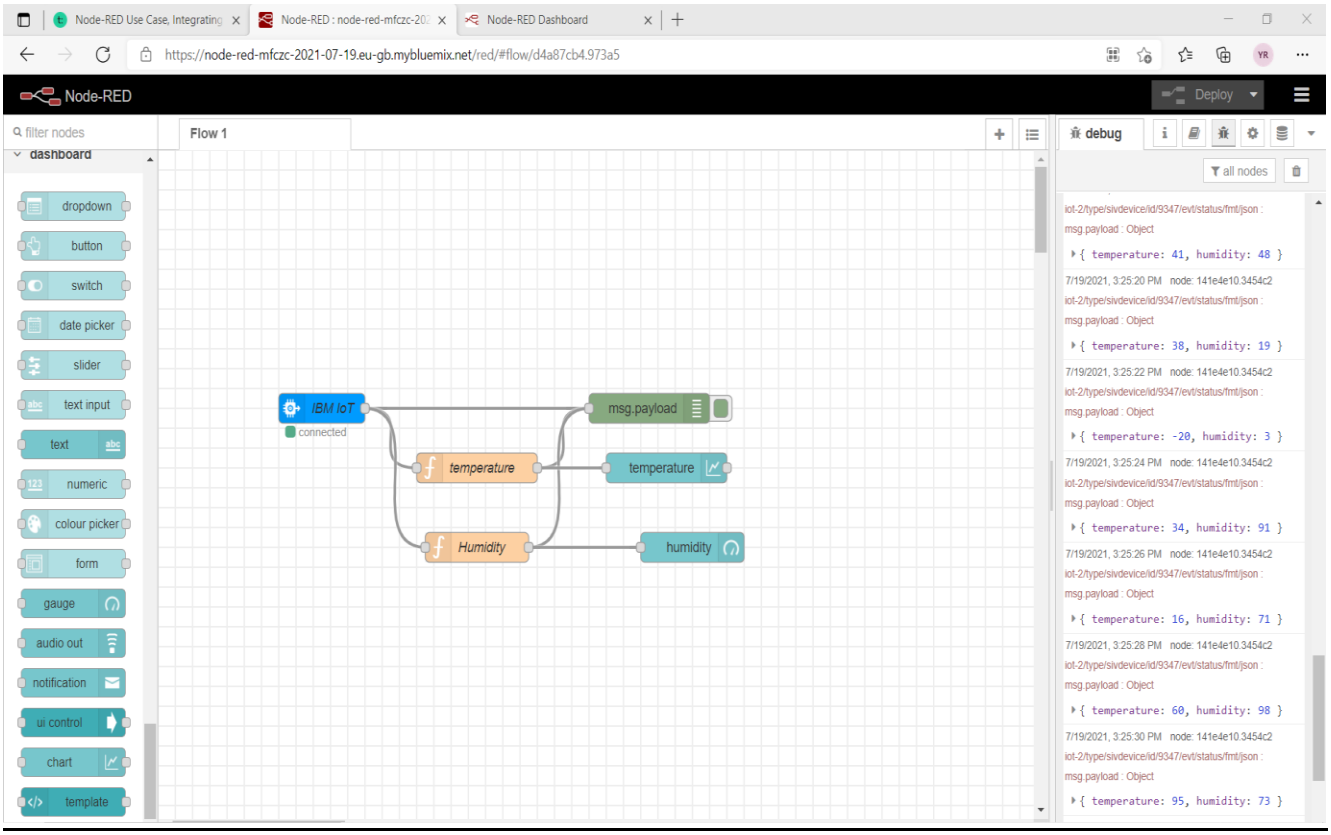
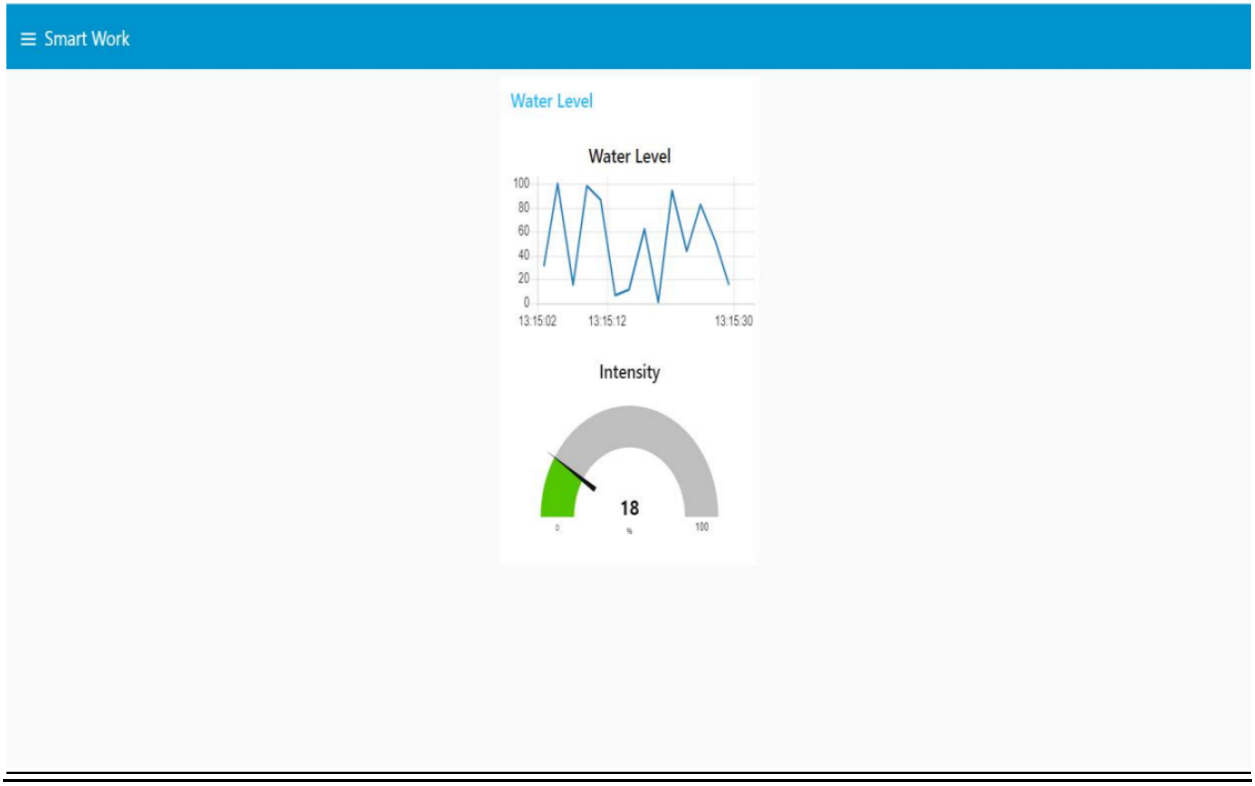
```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "0jg4rj",
        "typeId": "sivdevice",
        "deviceId":"9347"
    },
    "auth": {
        "token": "Sushwanth2005"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']

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

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

NODE-RED DESIGN:



WEB-DESIGN:


Smart Work
Water Level
Water Level
100
80
60
40
20
0
13:15:02
13:15:12
13:15:30
Intensity
18
%
0
100