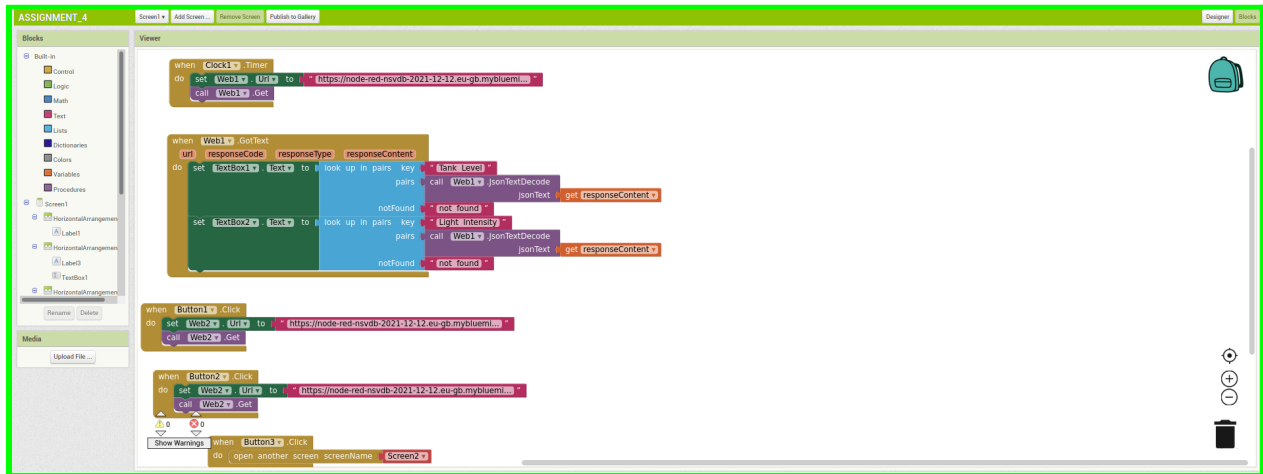
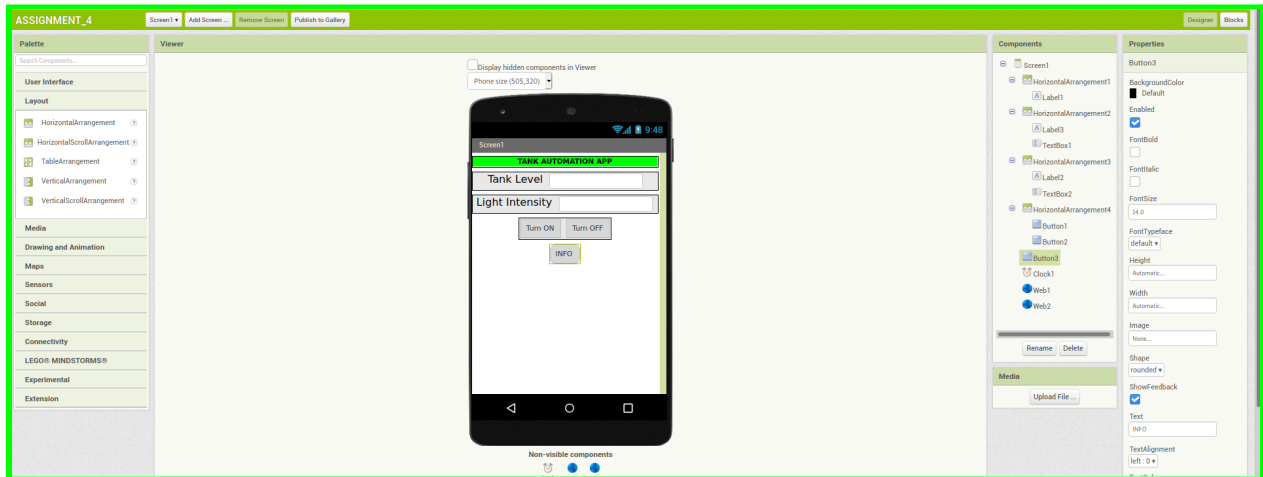
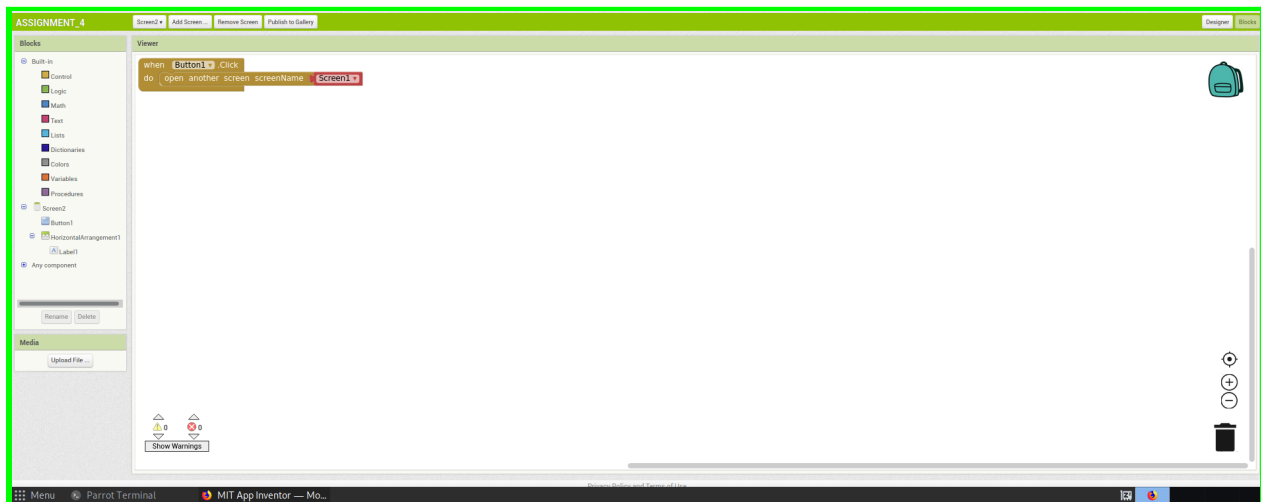
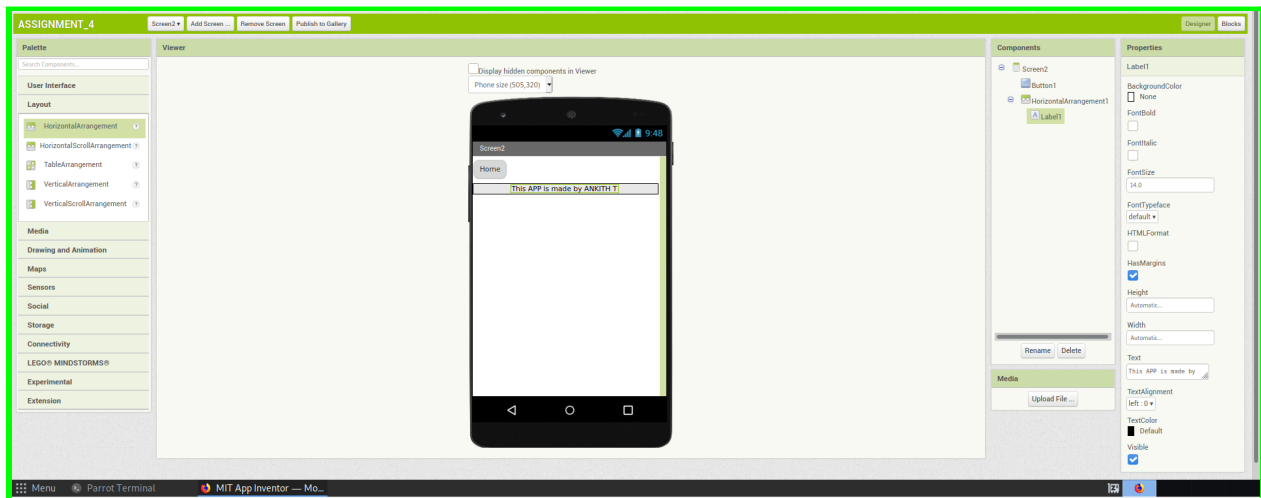


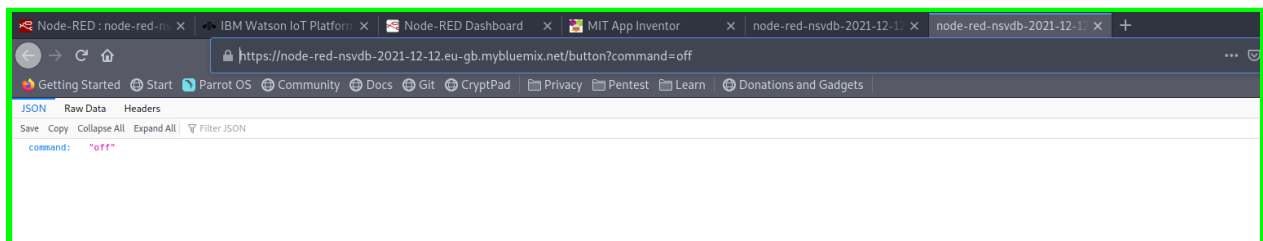
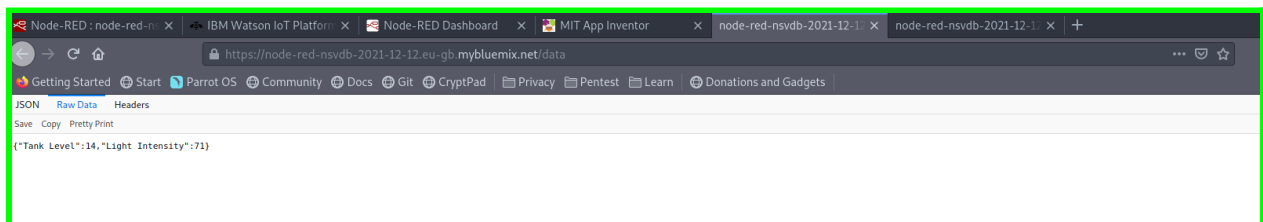
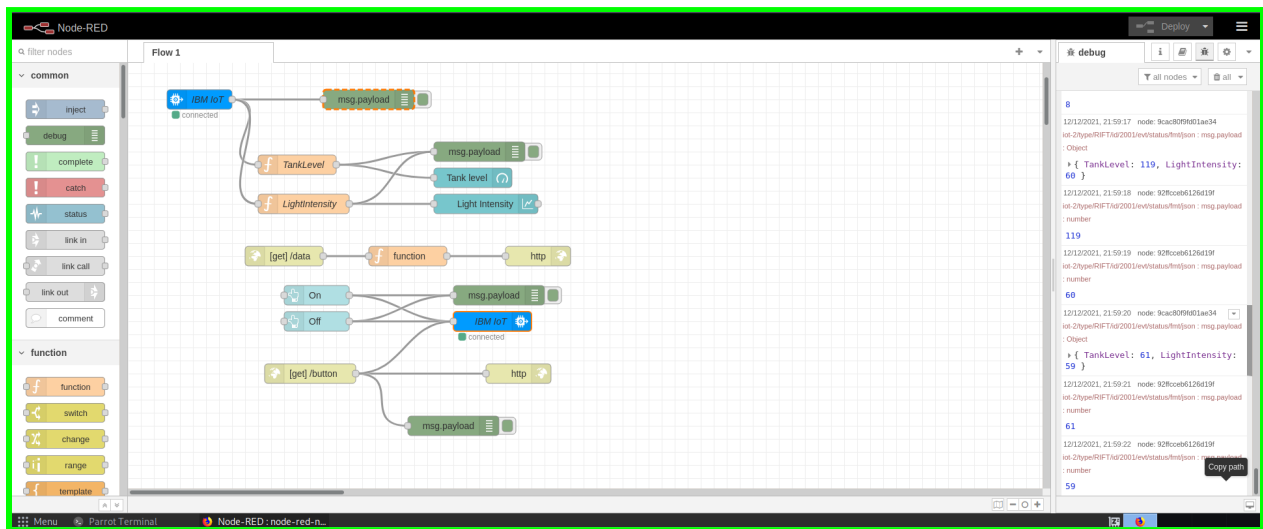
Screen 1



Screen 2



NODE-RED



Python Code

```
File Edit View Search Terminal Help
GNU nano 5.4 iot.py
import wiotp.sdk.device
import time
import random

myConfig = {
    "identity": {
        "orgId": "e9psgv",
        "typeId": "RIFT",
        "deviceId": "2001"
    },
    "auth": {
        "token": "12345678"
    }
}

def myCommandCallback(cmd):
    print("Message recieved from IBM IoT Platform: %s" % cmd.data)
    m=cmd.data['command']
    print(m)
    if m == "on":
        print("Switched ON")
    elif m=="off":
        print("Switched OFF")

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

while True:
    tanklvl=random.randint(-20,125)
    lightint=random.randint(0,100)
    myData={'TankLevel':tanklvl, 'LightIntensity': lightint}
    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()
```

```
[user@parrot]~$ python3 iot.py
2021-12-12 22:05:20,932 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:e9psgv:RIFT:2001
Published Data Successfully: %s {'TankLevel': 69, 'LightIntensity': 56}
Published Data Successfully: %s {'TankLevel': 9, 'LightIntensity': 17}
Published Data Successfully: %s {'TankLevel': 35, 'LightIntensity': 64}
Published Data Successfully: %s {'TankLevel': 33, 'LightIntensity': 64}
Published Data Successfully: %s {'TankLevel': 86, 'LightIntensity': 31}
Published Data Successfully: %s {'TankLevel': 73, 'LightIntensity': 38}
Published Data Successfully: %s {'TankLevel': -13, 'LightIntensity': 28}
Message recieved from IBM IoT Platform: {'command': 'on'}
on
Switched ON
Published Data Successfully: %s {'TankLevel': 86, 'LightIntensity': 35}
Published Data Successfully: %s {'TankLevel': 20, 'LightIntensity': 73}
Published Data Successfully: %s {'TankLevel': 53, 'LightIntensity': 61}
Published Data Successfully: %s {'TankLevel': -9, 'LightIntensity': 37}
Published Data Successfully: %s {'TankLevel': 55, 'LightIntensity': 57}
Message recieved from IBM IoT Platform: {'command': 'off'}
off
Switched OFF
Published Data Successfully: %s {'TankLevel': 3, 'LightIntensity': 85}
Published Data Successfully: %s {'TankLevel': -11, 'LightIntensity': 49}
```

MIT A12 APP-View

