

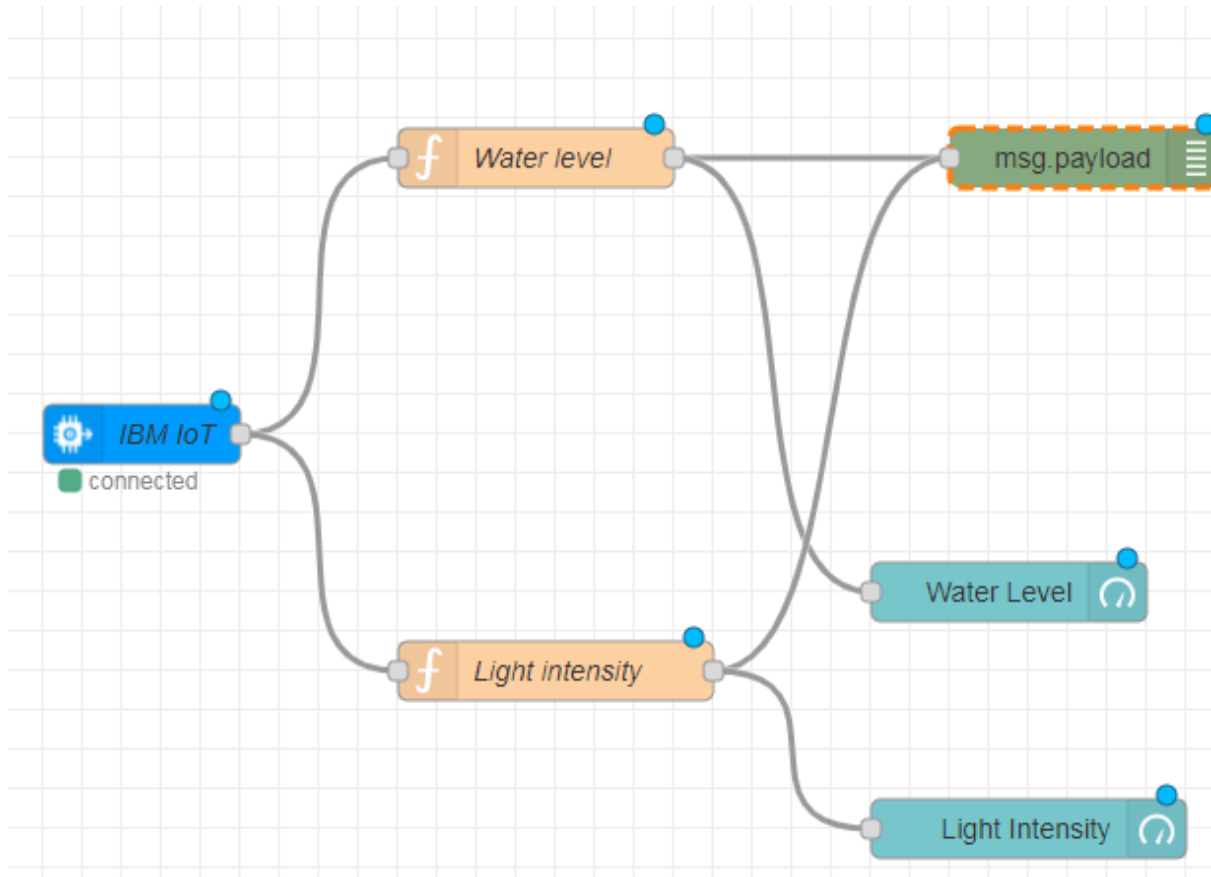
ASSIGNMENT-3

NAME: JEYVARSHA

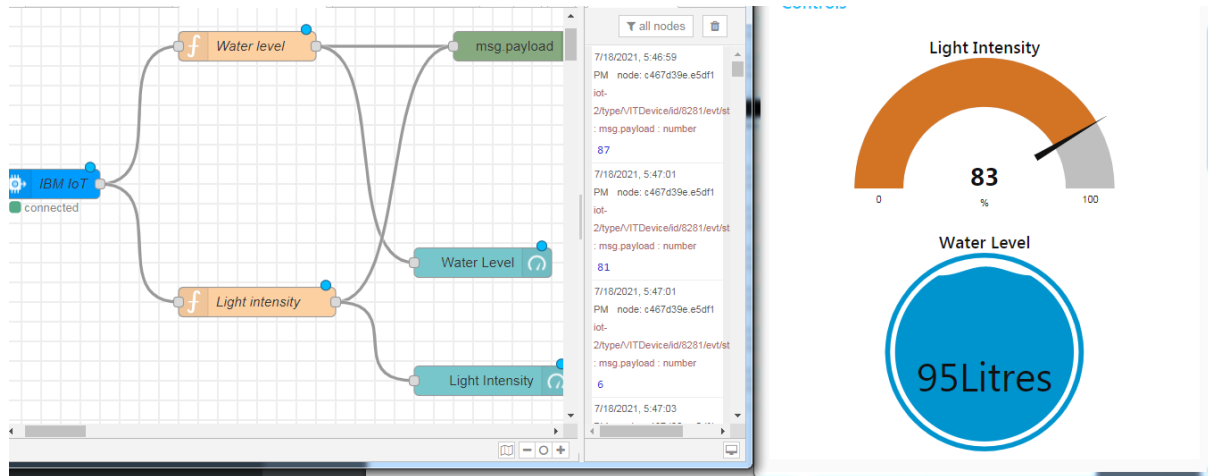
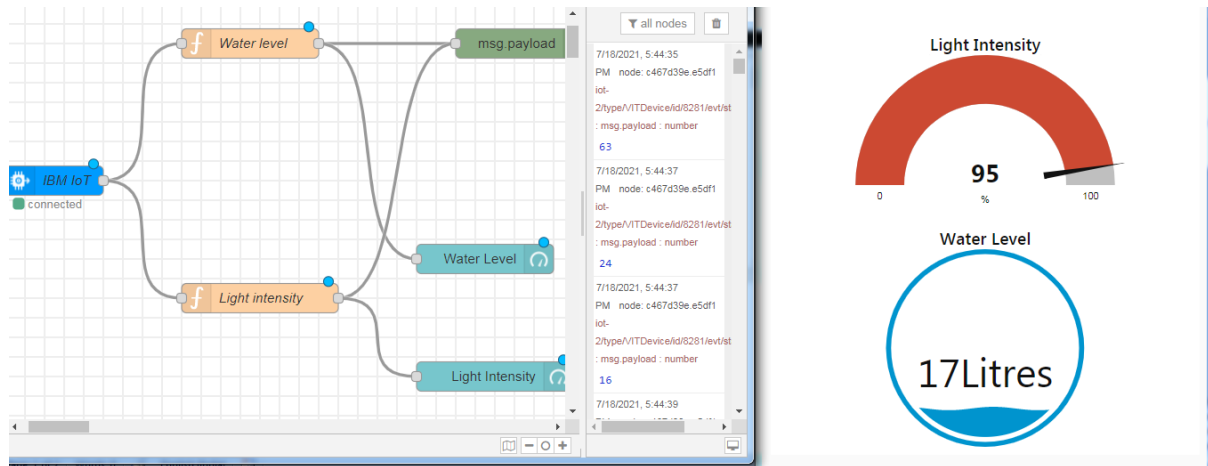
REG NO:19BEE1096

Develop a code to upload the water tank level and light intensity values to the IBM IoT platform and visualize them in the web application.

CIRCUIT:



OUTPUT:



```
Assessment 3 (11.py - C:\Users\admin\Downloads\Assessment 3 (11.py (3.74))
File Edit Format Run Options Window Help
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "4610go",
        "typeId": "varshakumar",
        "deviceId": "270602"
    },
    "auth": {
        "token": "Varsha160712!"
    }
}

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) sriba
client.connect()

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

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Published data Successfully: %s ('waterlevel': 78, 'lightintensity': 69)
Published data Successfully: %s ('waterlevel': 78, 'lightintensity': 31)
Published data Successfully: %s ('waterlevel': 19, 'lightintensity': 49)
Published data Successfully: %s ('waterlevel': 60, 'lightintensity': 12)
Published data Successfully: %s ('waterlevel': 51, 'lightintensity': 65)
Published data Successfully: %s ('waterlevel': 66, 'lightintensity': 2)
Published data Successfully: %s ('waterlevel': 93, 'lightintensity': 24)
Published data Successfully: %s ('waterlevel': 23, 'lightintensity': 24)
Published data Successfully: %s ('waterlevel': 63, 'lightintensity': 35)
Published data Successfully: %s ('waterlevel': 61, 'lightintensity': 74)
Published data Successfully: %s ('waterlevel': 5, 'lightintensity': 10)
Published data Successfully: %s ('waterlevel': 96, 'lightintensity': 72)
Published data Successfully: %s ('waterlevel': 53, 'lightintensity': 61)
Published data Successfully: %s ('waterlevel': 18, 'lightintensity': 44)
Published data Successfully: %s ('waterlevel': 34, 'lightintensity': 41)
Published data Successfully: %s ('waterlevel': 13, 'lightintensity': 51)
Published data Successfully: %s ('waterlevel': 89, 'lightintensity': 70)
Published data Successfully: %s ('waterlevel': 41, 'lightintensity': 88)
Published data Successfully: %s ('waterlevel': 24, 'lightintensity': 3)
Published data Successfully: %s ('waterlevel': 64, 'lightintensity': 5)
Published data Successfully: %s ('waterlevel': 20, 'lightintensity': 12)
Published data Successfully: %s ('waterlevel': 20, 'lightintensity': 86)
Published data Successfully: %s ('waterlevel': 72, 'lightintensity': 77)
Published data Successfully: %s ('waterlevel': 50, 'lightintensity': 25)
Published data Successfully: %s ('waterlevel': 51, 'lightintensity': 70)
Published data Successfully: %s ('waterlevel': 87, 'lightintensity': 94)
Published data Successfully: %s ('waterlevel': 5, 'lightintensity': 15)
Published data Successfully: %s ('waterlevel': 40, 'lightintensity': 15)
Published data Successfully: %s ('waterlevel': 64, 'lightintensity': 36)
Published data Successfully: %s ('waterlevel': 89, 'lightintensity': 21)
Published data Successfully: %s ('waterlevel': 71, 'lightintensity': 100)
Published data Successfully: %s ('waterlevel': 47, 'lightintensity': 24)
Published data Successfully: %s ('waterlevel': 51, 'lightintensity': 56)
Published data Successfully: %s ('waterlevel': 41, 'lightintensity': 35)
Published data Successfully: %s ('waterlevel': 32, 'lightintensity': 83)
Published data Successfully: %s ('waterlevel': 73, 'lightintensity': 32)
Published data Successfully: %s ('waterlevel': 73, 'lightintensity': 10)
Published data Successfully: %s ('waterlevel': 12, 'lightintensity': 32)
Published data Successfully: %s ('waterlevel': 98, 'lightintensity': 97)
```

CODE:

```
import wiotp.sdk.device

import time

import random

myConfig = {
    "identity": {
        "orgId": "46l0go",
        "typeId": "varshakumar",
        "deviceId": "270602"
    },
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    }
}

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:
```

```
    waterlevel=random.randint(0,100)
```

```
    lightintensity=random.randint(0,100)
```

```
    myData={'waterlevel':waterlevel, 'lightintensity':lightintensity}
```

```
    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()
```

```
*Assessment 3 (1).py - C:\Users\admin\Downloads\Assessment 3 (1).py (3.7.4)*
File Edit Format Run Options Window Help
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "4610go",
        "typeId": "varshakumar",
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