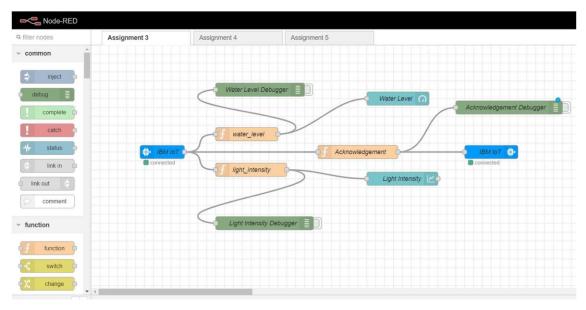
ASSIGNMENT-3

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.

Node Red Architecture:



Python Code:

```
from wiotp.sdk.device import DeviceClient
import random
import time
config = {
    "identity":{
        "orgId":"8vprpv",
        "typeId":"First",
        "deviceId":"1"},
        "auth":{"token":"12345678"}
}
def callBackFunc(cmd):
    data = {
```

```
"water_level":cmd.data["water_level"],
    "light_intensity": cmd.data["light_intensity"]
  print(f"Data acknowledged from cloud: \n\n{data}")
print("\n=======\n
client = DeviceClient(config=config)
client.connect()
while True:
  data = {
    "water_level":random.randint(2,10),
    "light_intensity": random.random()
print("==
                                                                               =\n")
  print(f"Data uploaded to cloud: \n\f data\n")
  client.publishEvent("upload",msgFormat="json",
  data=data)
  client.commandCallback = callBackFunc
  time.sleep(15)
client.disconnect()
```

Working Prototype:

1. Python Console Output

2. Web UI Visualization

