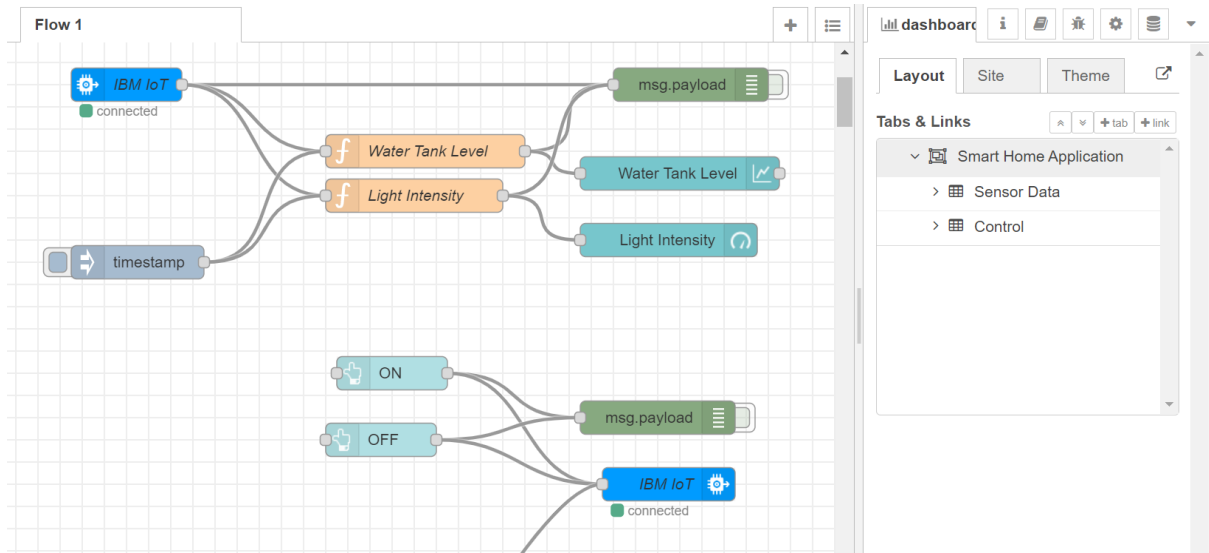


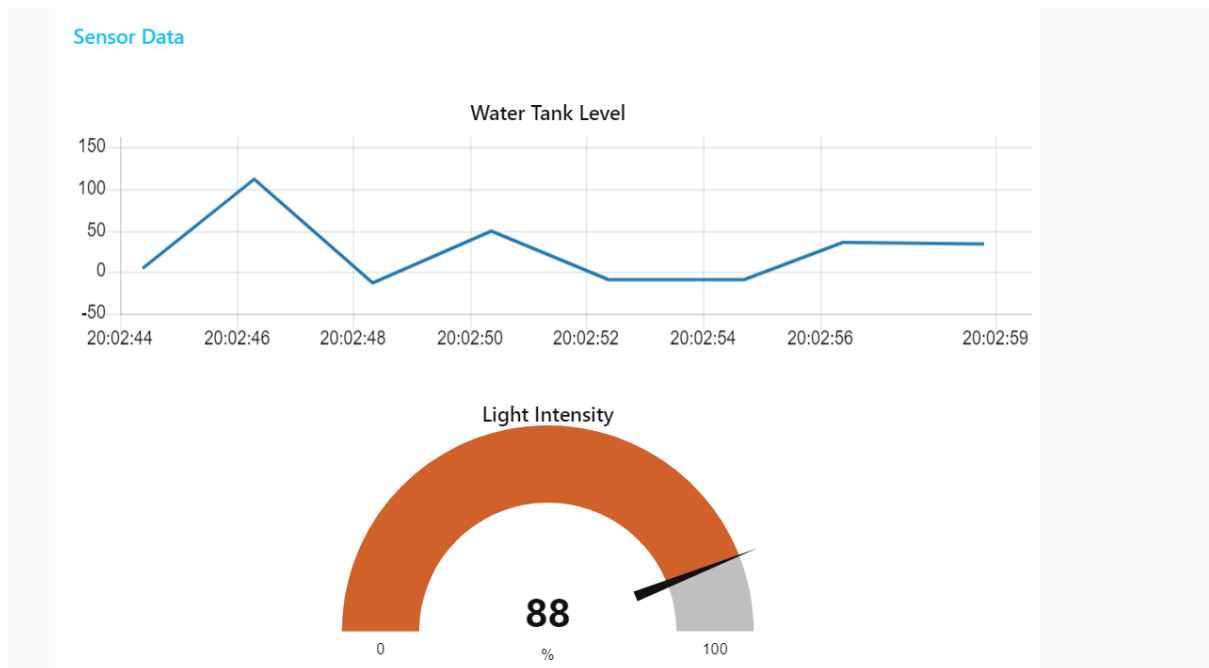
ASSIGNMENT 3

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 Diagram:



Web Application Diagram:



Python(OUTPUT)

```
"IDLE Shell 3.9.6"
File Edit Shell Debug Options Window Help
Published data Successfully: %s ('watertanklevel': 114, 'lightintensity': 48)
Published data Successfully: %s ('watertanklevel': 49, 'lightintensity': 33)
Published data Successfully: %s ('watertanklevel': 47, 'lightintensity': 16)
Published data Successfully: %s ('watertanklevel': -1, 'lightintensity': 82)
Published data Successfully: %s ('watertanklevel': 4, 'lightintensity': 70)
Published data Successfully: %s ('watertanklevel': 112, 'lightintensity': 88)
Published data Successfully: %s ('watertanklevel': -13, 'lightintensity': 68)
Published data Successfully: %s ('watertanklevel': 49, 'lightintensity': 57)
Published data Successfully: %s ('watertanklevel': -9, 'lightintensity': 33)
Published data Successfully: %s ('watertanklevel': -9, 'lightintensity': 55)
Published data Successfully: %s ('watertanklevel': 35, 'lightintensity': 38)
Published data Successfully: %s ('watertanklevel': 34, 'lightintensity': 88)
Published data Successfully: %s ('watertanklevel': 78, 'lightintensity': 68)
Published data Successfully: %s ('watertanklevel': 69, 'lightintensity': 94)
Published data Successfully: %s ('watertanklevel': 31, 'lightintensity': 72)
Published data Successfully: %s ('watertanklevel': 10, 'lightintensity': 3)
Published data Successfully: %s ('watertanklevel': 48, 'lightintensity': 47)
Published data Successfully: %s ('watertanklevel': 62, 'lightintensity': 71)
Published data Successfully: %s ('watertanklevel': 59, 'lightintensity': 23)
Published data Successfully: %s ('watertanklevel': -20, 'lightintensity': 60)
Published data Successfully: %s ('watertanklevel': 40, 'lightintensity': 0)
Published data Successfully: %s ('watertanklevel': 103, 'lightintensity': 52)
Published data Successfully: %s ('watertanklevel': 112, 'lightintensity': 35)
Published data Successfully: %s ('watertanklevel': -9, 'lightintensity': 99)
Published data Successfully: %s ('watertanklevel': 10, 'lightintensity': 81)
Published data Successfully: %s ('watertanklevel': 70, 'lightintensity': 65)
Published data Successfully: %s ('watertanklevel': 2, 'lightintensity': 36)
Published data Successfully: %s ('watertanklevel': 82, 'lightintensity': 14)
Published data Successfully: %s ('watertanklevel': 9, 'lightintensity': 86)
Published data Successfully: %s ('watertanklevel': 59, 'lightintensity': 27)
Published data Successfully: %s ('watertanklevel': -16, 'lightintensity': 59)
Published data Successfully: %s ('watertanklevel': 123, 'lightintensity': 26)
Published data Successfully: %s ('watertanklevel': 27, 'lightintensity': 85)
Published data Successfully: %s ('watertanklevel': 29, 'lightintensity': 78)
Published data Successfully: %s ('watertanklevel': -8, 'lightintensity': 43)
Published data Successfully: %s ('watertanklevel': 33, 'lightintensity': 52)
Published data Successfully: %s ('watertanklevel': 74, 'lightintensity': 88)
Published data Successfully: %s ('watertanklevel': 92, 'lightintensity': 16)
Published data Successfully: %s ('watertanklevel': 40, 'lightintensity': 88)
Published data Successfully: %s ('watertanklevel': 46, 'lightintensity': 15)
Published data Successfully: %s ('watertanklevel': 92, 'lightintensity': 25)
Ln: 5 Col: 0
```