

REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM USING IoT

Submitted by

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PUBLISH DATA IBM CLOUD

The image shows a dual-screen view. On the left, a PyCharm IDE window displays a Python script named `Test_python_3,7,4.py`. The script generates random values for pH, turbidity, and temperature, and publishes them to the IBM Watson IoT Platform. The output console shows a stream of published data points.

```
Test_python_3,7,4.py
42 pH = random.r
43 turbidity = random.randint(1,
44 temperature = random.randint(0
45
46 data = {'pH': pH, 'turbid': tur
47
48
49 # print(data)
50 def myOnPublishCallback():
    while True
```

Run: Test_python_3,7,4

Published pH= 4 Turbidity:242 Temperature:91
Published pH= 12 Turbidity:564 Temperature:54
Published pH= 2 Turbidity:571 Temperature:98
Published pH= 7 Turbidity:677 Temperature:65
Published pH= 8 Turbidity:352 Temperature:13
Published pH= 5 Turbidity:862 Temperature:88
Published pH= 3 Turbidity:834 Temperature:7
Published pH= 9 Turbidity:213 Temperature:89
Published pH= 14 Turbidity:677 Temperature:22
Published pH= 11 Turbidity:292 Temperature:100
Published pH= 2 Turbidity:53 Temperature:21
Published pH= 6 Turbidity:409 Temperature:69
Published pH= 11 Turbidity:238 Temperature:20
Published pH= 2 Turbidity:443 Temperature:43
Published pH= 6 Turbidity:986 Temperature:91
Published pH= 5 Turbidity:593 Temperature:85
Published pH= 14 Turbidity:388 Temperature:86
Published pH= 4 Turbidity:532 Temperature:8
Published pH= 3 Turbidity:56 Temperature:8

On the right, the IBM Watson IoT Platform dashboard is shown. It displays a table of recent events, which are the data points published by the script. The table has two columns: 'Event' and 'Value'.

Event	Value
demo	{"pH":12,"turbid":93,"temp":87}
demo	{"pH":7,"turbid":873,"temp":94}
demo	{"pH":3,"turbid":204,"temp":19}
demo	{"pH":11,"turbid":304,"temp":77}
demo	{"pH":13,"turbid":16,"temp":50}

At the bottom of the dashboard, a status bar shows the device ID '00003', its status 'Disconnected', and the device name 'Micro_controller_2'.