

DATA PUBLISH IBM CLOUD

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Team id	PNT2022TMID50000
Project title	Real time river water quality monitoring and control system
marks	4 marks

The screenshot displays a development environment with a Python script and the IBM Watson IoT Platform interface.

Python Script (Test_python_3.7.4.py):

```
12 pH = random.r
13 turbidity = random.randint(1, 2
14 temperature = random.randint(0, 2
15
16 data = {'pH': pH, 'turbid': tur
17
18 # print(data)
19 do* myOnPublishCallback();
20
21 while True
```

Run Output:

```
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:160
Published pH= 2 Turbidity:53 Temperature:21
Published pH= 6 Turbidity:499 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:308 Temperature:86
Published pH= 4 Turbidity:532 Temperature:8
Published pH= 3 Turbidity:86 Temperature:8
```

IBM Watson IoT Platform Interface:

The interface shows the "Recent events" section, which displays a live stream of data. The events are listed in a table:

Event	Value
demo	("pH":12,"turbid":564,"temp":54)
demo	("pH":2,"turbid":571,"temp":98)
demo	("pH":7,"turbid":677,"temp":65)
demo	("pH":8,"turbid":352,"temp":13)
demo	("pH":5,"turbid":862,"temp":88)
demo	("pH":3,"turbid":834,"temp":7)
demo	("pH":9,"turbid":213,"temp":89)
demo	("pH":14,"turbid":677,"temp":22)
demo	("pH":11,"turbid":292,"temp":160)
demo	("pH":2,"turbid":53,"temp":21)
demo	("pH":6,"turbid":499,"temp":69)
demo	("pH":11,"turbid":238,"temp":20)
demo	("pH":2,"turbid":443,"temp":43)
demo	("pH":6,"turbid":986,"temp":91)
demo	("pH":5,"turbid":593,"temp":85)
demo	("pH":14,"turbid":308,"temp":86)
demo	("pH":4,"turbid":532,"temp":8)
demo	("pH":3,"turbid":86,"temp":8)

The interface also shows a "Device Types" section with a table of devices:

Device ID	Device Name	Device Type	Device Status
00003	Micro_controller_2	Micro_controller_2	Disconnected