

REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

SPRINT-2

PYTHON SOURCE CODE-OUTPUT:

```
Python 3.7.0 (v3.7.0:1bf9ec5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\IBM\new source code.py =====
2022-11-19 11:27:36.018 ibmiotf.device.Client INFO Connected successfully: d:swz5ouabcd:12
Published pH= 8 Turbidity:270 Temperature:75
Published pH= 3 Turbidity:7 Temperature:83
Published pH= 3 Turbidity:931 Temperature:11
Published pH= 2 Turbidity:657 Temperature:7
Published pH= 7 Turbidity:410 Temperature:47
Published pH= 14 Turbidity:353 Temperature:25
Published pH= 3 Turbidity:968 Temperature:60
Published pH= 12 Turbidity:751 Temperature:86
Published pH= 3 Turbidity:80 Temperature:89
Published pH= 4 Turbidity:814 Temperature:41
Published pH= 1 Turbidity:401 Temperature:96
Published pH= 9 Turbidity:389 Temperature:53
Published pH= 4 Turbidity:294 Temperature:9
Published pH= 11 Turbidity:838 Temperature:76
Published pH= 6 Turbidity:739 Temperature:60
Published pH= 12 Turbidity:661 Temperature:44
Published pH= 13 Turbidity:744 Temperature:31
Published pH= 11 Turbidity:963 Temperature:13
Published pH= 12 Turbidity:117 Temperature:93
Published pH= 12 Turbidity:855 Temperature:39
Published pH= 4 Turbidity:242 Temperature:100
Published pH= 4 Turbidity:190 Temperature:16
Published pH= 12 Turbidity:509 Temperature:92
Published pH= 14 Turbidity:50 Temperature:93
Published pH= 8 Turbidity:688 Temperature:71
Published pH= 7 Turbidity:969 Temperature:52
Published pH= 8 Turbidity:517 Temperature:89
Published pH= 8 Turbidity:461 Temperature:83
```

IBM IOT WATSON:

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces', along with a user profile and email '311519106066@smartinternz.com'. The main content area shows a device named 'abcd' with status 'Connected' and a timestamp 'Oct 12, 2022 7:32 PM'. Below this, a table titled 'Recent Events' lists data points for pH, Turbidity, and Temperature, along with their formats and last received times.

Event	Value	Format	Last Received
water monito...	{"pH":8,"turbid":381,"temp":19,"alert":0}	json	a few seconds ago
water monito...	{"pH":13,"turbid":775,"temp":26,"alert":1}	json	a few seconds ago
water monito...	{"pH":11,"turbid":425,"temp":94,"alert":0}	json	a few seconds ago
water monito...	{"pH":11,"turbid":900,"temp":46,"alert":1}	json	a few seconds ago
water monito...	{"pH":7,"turbid":426,"temp":47,"alert":0}	json	a few seconds ago