

TEAM ID	PNT2022TMID12734
PROJECT NAME	Real-time River Water Quality Monitoring and Control System

QUESTION:

Develop a python code for publishing random sensor data (Water turbidity, pH values, if required temperature) to the IBM

The screenshot displays the IBM Watson IoT Platform interface, specifically the 'Simulations' section. The left sidebar shows a navigation menu with 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area is divided into two panels. The left panel, titled 'Search by Device ID', shows a table of devices with columns for Device ID, Status, Device Type, and Class ID. A device with ID 1234567 is listed as 'Disconnected' and of type 'ESP32_dlist'. Below this, the 'Recent Events' tab is active, showing a table of events with columns for Event, Value, and Format. The events are listed as 'event01' with values like '["Temperature":23,"Ph-value":5,"humidity":86]' in 'json' format. The right panel, titled 'Simulations', shows '1/50 Simulations Running' and a '+ New Simulation' button. Below this, a device 'ESP32_dlist' is selected, and a '1 Event' toggle is visible. A '2 Device' section shows the device '1234567' with buttons for 'Create Simulated Device' and 'Use Registered Device'. At the bottom, a status bar indicates '403 events sent' with a red triangle icon and '(7 failed)', and '8.9 KB sent'.

Event	Value	Format
event01	["Temperature":23,"Ph-value":5,"humidity":86]	json
event01	["Temperature":36,"Ph-value":2,"humidity":60]	json
event01	["Temperature":37,"Ph-value":7,"humidity":88]	json
event01	["Temperature":96,"Ph-value":12,"humidity":65]	json
event01	["Temperature":91,"Ph-value":9,"humidity":60]	json

Device Type: ESP32_dist

Events 1

New event type +

Event type name

event01

Send

Schedule

20

Every Minute

Payload

Specify the event payload in the editor window or by uploading a [CSV file](#).

0

{

1

"Temperature":random(10,100),

2

"Ph-value":random(0,14),

3

"humidity":random(0,100)

4

}

5

Upload a CSV file

Cancel

Save