

Team ID	PNT2022TMID35389
Project Name	Smart waste management system for metropolitan cities

Output of Python script:

The screenshot shows the PyCharm IDE with a project named 'qrkode'. The file explorer on the left shows a directory structure with files like 'main.py', 'ibm_main.py', and 'or_gate.ml.py'. The main editor displays the code for 'ibm_main.py', which includes a loop that publishes data to IBM Watson IoT. The Run console at the bottom shows the output of the script, indicating a successful connection and the publication of five data points.

```

27 data = {"lat": lat, "long": long, "bin_value": bin_value, "bin_weight": bin_weight}
28 def myOnPublishCallback():
29     print("Published Latitude =%s " % lat, "Longitude =%s " % long, "Bin value =%s " % bin_value, "Bin weight
30 success=deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publish=myOnPublishCallback())
31 if not success:
32     print("Failed!!")
33     time.sleep(10)
34 deviceCli.disconnect()
35
36 while True:
    if not success:

```

Run console output:

```

C:\Users\Vishwanathan\PycharmProjects\qrkode\venv\Scripts\python.exe C:/Users/Vishwanathan/PycharmProjects/qrkode/ibm_main.py
2022-11-13 11:23:48,302 ibmiotf.device.Client INFO Connected successfully: d:js87ki:my_devices:1
Published Latitude =13.012594155082645 Longitude =80.23527327140268 Bin value =9 Bin weight =13 kgs to IBM Watson
Published Latitude =13.012594155082645 Longitude =80.23527327140268 Bin value =92 Bin weight =8 kgs to IBM Watson
Published Latitude =13.012594155082645 Longitude =80.23527327140268 Bin value =49 Bin weight =13 kgs to IBM Watson
Published Latitude =13.012594155082645 Longitude =80.23527327140268 Bin value =6 Bin weight =21 kgs to IBM Watson
Published Latitude =13.012594155082645 Longitude =80.23527327140268 Bin value =3 Bin weight =12 kgs to IBM Watson
Published Latitude =13.012594155082645 Longitude =80.23527327140268 Bin value =8 Bin weight =14 kgs to IBM Watson

```

The screenshot shows the IBM Watson IoT Platform web interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains icons for various functions. The main content area displays a table of devices, with one device selected and its details expanded.

Device ID	Status	Device Type	Class ID	Date Added
1	Disconnected	my_devices	Device	Nov 13, 2022 11:16 AM

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
IoTSensor	{"lat":13.012594155082645,"long":80.235273...	json	a few seconds ago
IoTSensor	{"lat":13.012594155082645,"long":80.235273...	json	a few seconds ago
IoTSensor	{"lat":13.012594155082645,"long":80.235273...	json	a few seconds ago
IoTSensor	{"lat":13.012594155082645,"long":80.235273...	json	a few seconds ago
IoTSensor	{"lat":13.012594155082645,"long":80.235273...	json	a few seconds ago

0 Simulations running