

Develop Python Script

Team ID	PNT2022TMID47513
Project Title	Smart waste management system in metropolitan cities.

Screenshot For simulator:

```
C:\WINDOWS\py.exe
2022-11-19 13:13:35,271 |hmioff.device.Client |INFO |Connected successfully: d:08a1f4:Dustbin:Dustbin1
Anna Nagar, Madurai, Tamilnadu
published level of bin = 40% Load = 20% Latitude = 10.9368 Longitude = 78.1366
20%
40%

Anna Nagar, Madurai, Tamilnadu
published level of bin = 40% Load = 20% Latitude = 10.9368 Longitude = 78.1366
20%
40%

Anna Nagar, Madurai, Tamilnadu
published level of bin = 60% Load = 40% Latitude = 10.9368 Longitude = 78.1366
40%
60%

Anna Nagar, Madurai, Tamilnadu
published level of bin = 60% Load = 40% Latitude = 10.9368 Longitude = 78.1366
40%
60%

C:\WINDOWS\py.exe
published level of bin = 10% Load = 20% Latitude = 10.9368 Longitude = 78.1366
10%
10%

Anna Nagar, Madurai, Tamilnadu
published level of bin = 10% Load = 20% Latitude = 10.9368 Longitude = 78.1366
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Anna Nagar, Madurai, Tamilnadu
published level of bin = 10% Load = 60% Latitude = 10.9368 Longitude = 78.1366
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Anna Nagar, Madurai, Tamilnadu
published level of bin = 10% Load = 60% Latitude = 10.9368 Longitude = 78.1366
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Anna Nagar, Madurai, Tamilnadu
published level of bin = 20% Load = 20% Latitude = 10.9368 Longitude = 78.1366
20%
20%

Anna Nagar, Madurai, Tamilnadu
published level of bin = 20% Load = 20% Latitude = 10.9368 Longitude = 78.1366
20%
20%
```

```
C:\WINDOWS\system32
published level of bin = 40% Load = 60% Latitude = 10.9368 Longitude = 78.1366
60%
40%

Anna Nagar,Madurai,Tamilnadu
published level of bin = 40% Load = 60% Latitude = 10.9368 Longitude = 78.1366
60%
40%

Anna Nagar,Madurai,Tamilnadu
published level of bin = 80% Load = 100% Latitude = 10.9368 Longitude = 78.1366
100%
80%

Anna Nagar,Madurai,Tamilnadu
published level of bin = 80% Load = 100% Latitude = 10.9368 Longitude = 78.1366
100%
80%

Anna Nagar,Madurai,Tamilnadu
published level of bin = 20% Load = 20% Latitude = 10.9368 Longitude = 78.1366
20%
20%

Anna Nagar,Madurai,Tamilnadu
published level of bin = 20% Load = 20% Latitude = 10.9368 Longitude = 78.1366
20%
20%
```

```
Select C:\WINDOWS\system32
2022-11-19 13:18:45,954 ibmiotf.device.Client INFO Connected successfully: d:08a1f4:DustbinC:Dustbin3
Anna Nagar,Madurai,Tamilnadu
published level of bin = 80% Load = 60% Latitude = 10.9368 Longitude = 78.1366
60%
80%

Anna Nagar,Madurai,Tamilnadu
published level of bin = 80% Load = 60% Latitude = 10.9368 Longitude = 78.1366
60%
80%

Anna Nagar,Madurai,Tamilnadu
published level of bin = 60% Load = 100% Latitude = 10.9368 Longitude = 78.1366
100%
60%

Anna Nagar,Madurai,Tamilnadu
published level of bin = 60% Load = 100% Latitude = 10.9368 Longitude = 78.1366
100%
60%
```

Screenshot For Connected to IBM Watson device:

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for Browse, Action, Device Types, and Interfaces. A sidebar on the left contains icons for various platform features. The main content area shows a list of devices. The device 'Dustbin2' is selected, and its details are displayed in a modal window. The details include the Device ID, Device Type, Date Added, Added By, and Connection Status. The connection status is 'Connected' with a connection time of Nov 19, 2022 1:31 PM and a client address of 106.195.43.7.

Device ID	Device Type	Date Added	Added By	Connection Status
Dustbin2	DustbinB	Nov 15, 2022 11:25 AM	910419104008@smartinternz.com	Connected Connection Time: Nov 19, 2022 1:31 PM Client Address: 106.195.43.7 SecureToken

The screenshot displays the IBM Watson IoT Platform dashboard, showing the 'Recent Events' tab for the selected device 'Dustbin2'. The events are listed in a table, showing the Event, Value, Format, and Last Received. The events are IoTSensor events, with values like {"dist":43,"load":18} and {"type":"Buffer","data":[34,34]}. The last received time for both events is 'a few seconds ago'.

Event	Value	Format	Last Received
IoTSensor	{"dist":43,"load":18}	json	a few seconds ago
IoTSensor	{"type":"Buffer","data":[34,34]}	json	a few seconds ago

IBM Watson IoT Platform

910419104008@smartinternz.com
ID: 08mi4

Browse Action Device Types Interfaces

Dustbin2 Connected DustbinA Device Nov 15, 2022 11:19 AM

Identity Device Information **Recent Events** State Logs

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

Event	Value	Format	Last Received
IoTSensor	{"dist":43,"load":18}	json	a few seconds ago
IoTSensor	{"type":"Buffer","data":[34,34]}	json	a few seconds ago

> ☐ Dustbin2 Connected DustbinB Device Nov 15, 2022 11:25 AM

> ☐ Dustbin3 Connected DustbinC Device Nov 15, 2022 10:26 PM

> ☐ Kalai123 Disconnected Kalai Device Oct 23, 2022 10:52 PM

Items per page 50 | 1-5 of 5 items

1 of 1 page

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ENG IN 13:33 19-11-2022

IBM Watson IoT Platform

910419104008@smartinternz.com
ID: 08mi4

Browse Action Device Types Interfaces

Dustbin3 Connected DustbinC Device Nov 15, 2022 10:26 PM

Identity Device Information **Recent Events** State Logs

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

Event	Value	Format	Last Received
IoTSensor	{"dist":25,"load":1}	json	a few seconds ago
IoTSensor	{"type":"Buffer","data":[34,34]}	json	a few seconds ago

> ☐ Kalai123 Disconnected Kalai Device Oct 23, 2022 10:52 PM

Items per page 50 | 1-5 of 5 items

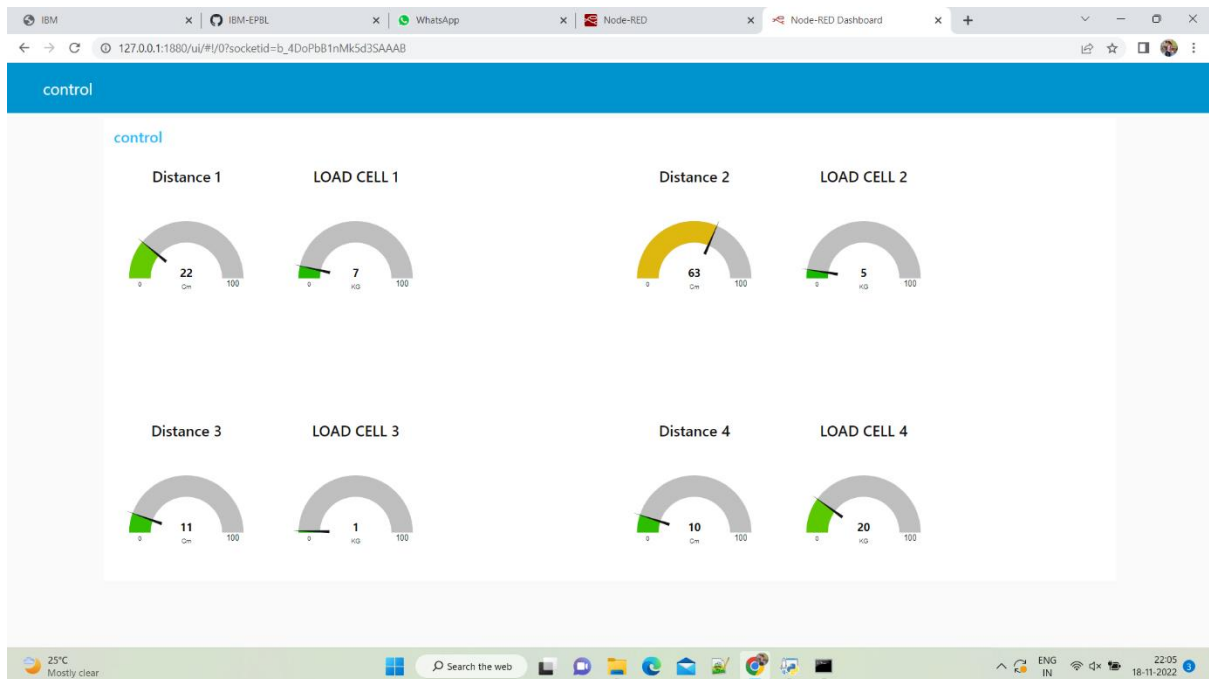
1 of 1 page

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Screenshot for Load Cell :



Screenshot for Node-red device:

