

## SPRINT-2

DATE	04-11-2022
TEAM ID	PNT2022TMID18361
PROJECT NAME	Project – Smart Farmer-IoT Enabled smart Farming Application

In the sprint second phase, the sensor values are randomly generated on the IBM Iot Watson platform.

### CODE FOR GENERATING THE RANDOM VALUES FOR THE SENSORS IN IBM WATSON IOT PLATFORM:

The screenshot shows the configuration interface for a sensor device in the IBM Watson IoT Platform. At the top, a breadcrumb shows a back arrow and 'Device Type: sensor'. Below this, the 'Event type name' is set to 'event\_flow', with a blue 'Send' button and a trash icon to its right. The 'Schedule' section shows a dropdown set to '1' and a frequency of 'Every Minute'. The 'Payload' section includes a link to 'Specify the event payload in the editor window or by uploading a CSV file.' Below this is a code editor with a JSON payload: 

```
{
  "temp": random(90,110),
  "hum": random(60,100),
  "moist": random(20,60)
}
```

 At the bottom, there is a button labeled 'Upload a CSV file'.

Device Type: sensor

Event type name: event\_flow **Send**

Schedule: 1 Every Minute

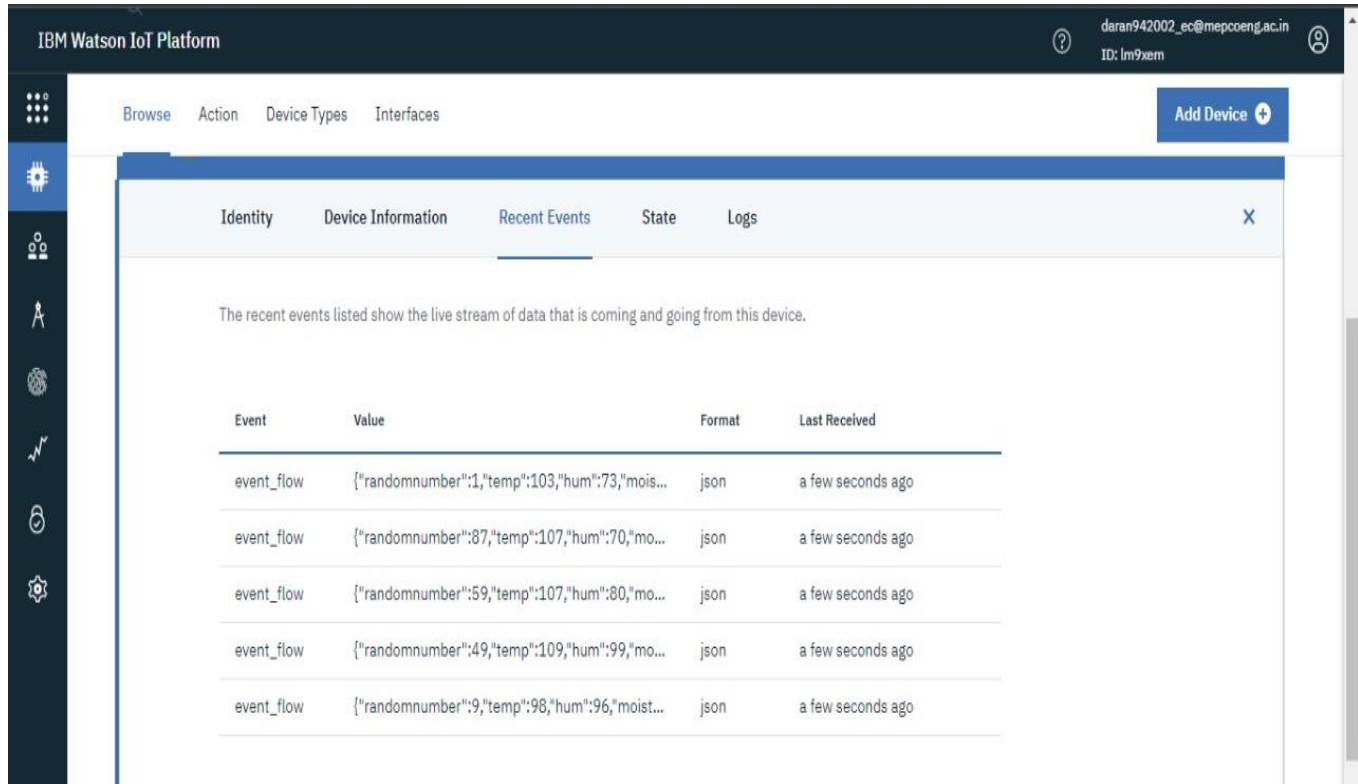
Payload

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

```
0 {
1   "temp": random(90,110),
2   "hum": random(60,100),
3   "moist": random(20,60)
4 }
5
```

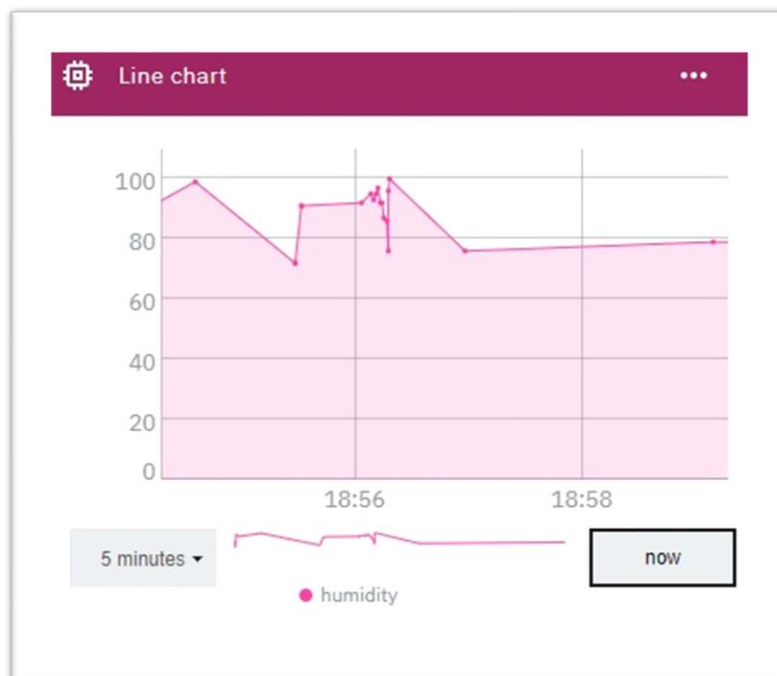
**Upload a CSV file**

## RANDOM NUMBER GENERATION OUTPUT:

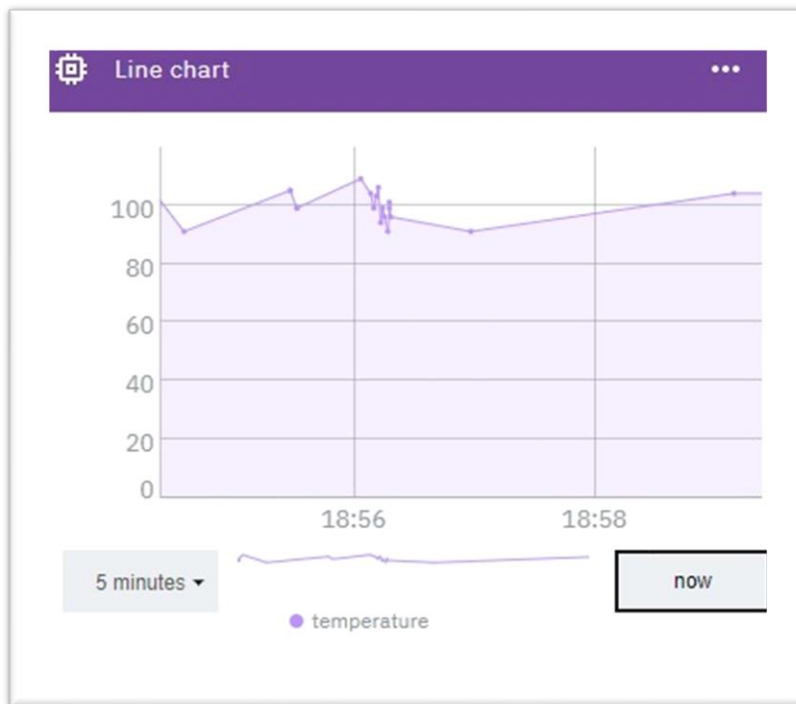


## LINE CHARTS OBTAINED FOR VARIOUS SENSORS:

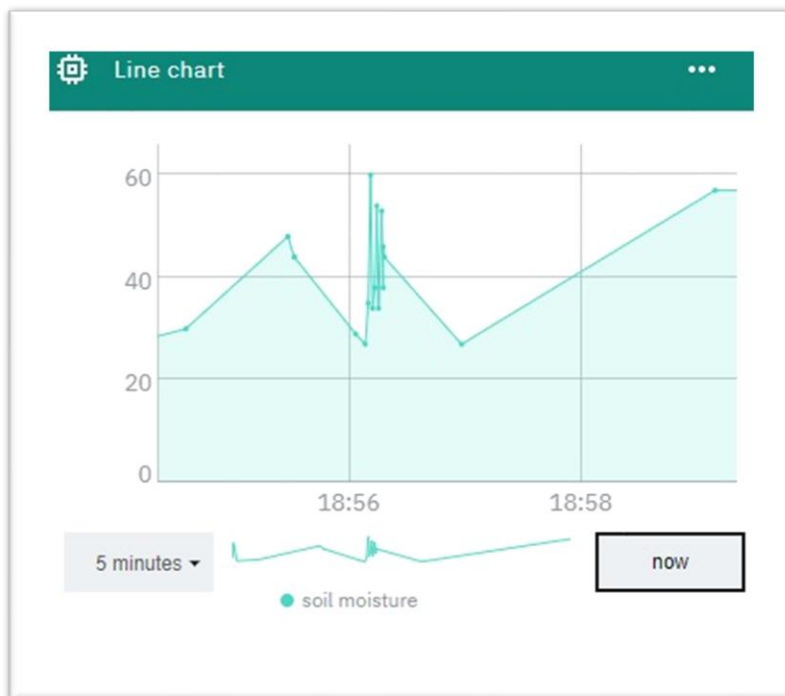
### HUMDITY SENSOR:



## TEMPERATURE SENSOR:



## SOIL MOISTURE SENSOR:



Hence the random values are generated on the IBM Watson Iot platform and it will be sent to the device configured on the Nodered app.