

## SPRINT 2

TEAM ID	PNT2022TMID36752
PROJECT NAME	REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM
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## CODE

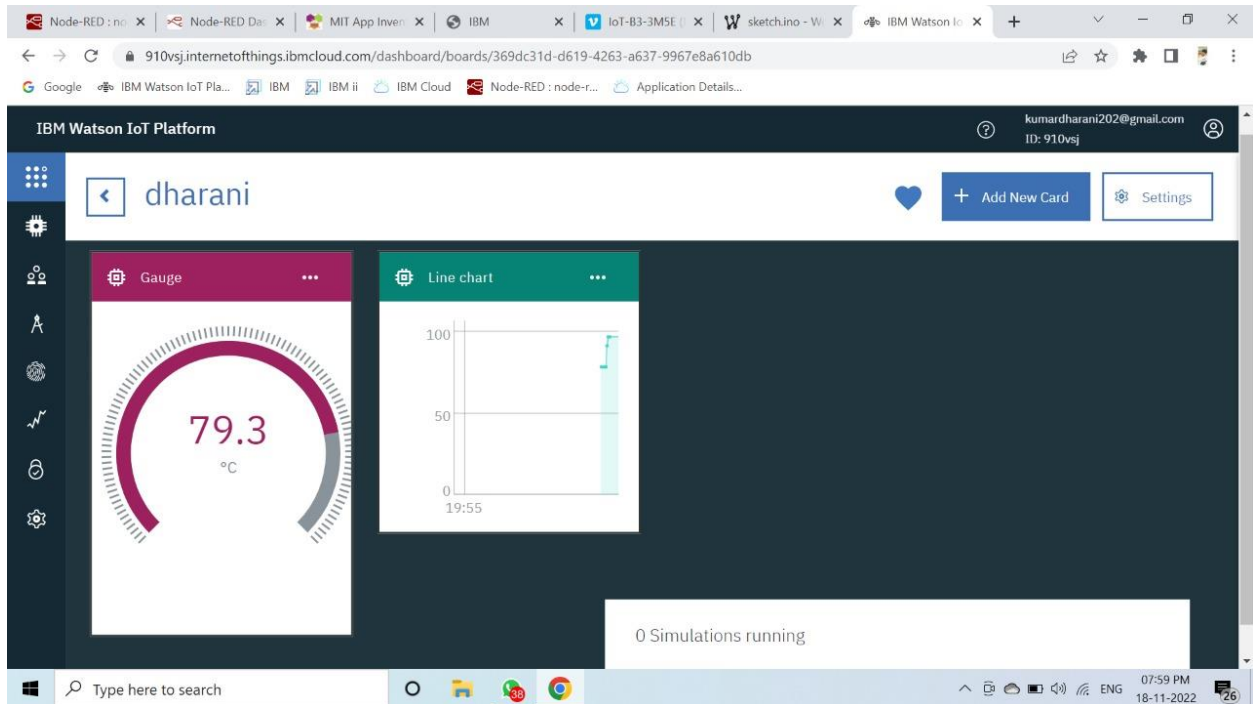
The screenshot displays the WOKWI simulation environment. On the left, the code editor shows the following code:

```
56 Serial.print("temp:");
57 Serial.println(t);
58 Serial.print("humidity:");
59 Serial.println(h);
60
61 n = digitalRead(33);
62 s = digitalRead(25);
63 e = digitalRead(26);
64 w = digitalRead(27);
65
66 PublishData(t, h, n, s, e, w);
67 delay(1000);
68 if (!client.loop()) {
69   mqttconnect();
70 }
71 }
72
73
74
75 /*.....retrieving to Cloud.....*/
76
77 void PublishData(float temp, float humid, int n, int s, int e, int w) {
78   mqttconnect();//function call for connecting to ibm
79   /*
80    * creating the String in in form JSON to update the data to ibm cloud
81    */
```

The simulation window on the right shows an ESP32 microcontroller connected to a DHT22 sensor. The output log displays the following data:

```
Publish ok
temp:55.20
humidity:78.50
Sending payload:
{"temp":55.20,"humidity":78.50,"North":0,"South":0,"East":0,"West":0}
Publish ok
```

# OUTPUT



## URL REFERENCE

<https://wokwi.com/projects/348674569513468499>