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DATE	18 november 2022
TEAM ID	PNT2022TMID41353
PROJECT NAME	IOT Based Smart Crop Protection System For Agriculture
MAXIMUM MARK	20 MARKS

STEP 1: Simulated program to get the random values.

The screenshot displays the Node-RED web interface in a browser. The main workspace shows a flow named 'Flow 1' with the following components and connections:

- IBM IoT Node:** A blue node with a 'connected' status, connected to a 'msg.payload' node.
- Function Nodes:** Two orange nodes labeled 'temperature node' and 'humidity' are connected to the 'msg.payload' node.
- Output Nodes:** Two blue nodes labeled 'Temperature' and 'Humidity' are connected to the 'temperature node' and 'humidity' nodes respectively.
- HTTP Function Node:** An orange node labeled 'httpfunctionnode' is connected to a '[get]/sensor' node.
- HTTP Node:** A green node labeled 'http' is connected to the 'httpfunctionnode'.

The right-hand panel shows the 'debug' console with a list of messages. Each message is a JSON object containing 'randomNumber', 'temp', and 'hum' values. The messages are as follows:

```
{ "randomNumber": 74, "temp": 100, "hum": 90 }
11/18/2022, 9:41:49 PM node: a079eb35323bf5e3
iot-2/type/NodeMCUId/12345/evt/eventflow/mtl/json :
msg.payload : Object
{ "randomNumber": 4, "temp": 99, "hum": 87 }
11/18/2022, 9:44:17 PM node: a079eb35323bf5e3
iot-2/type/NodeMCUId/12345/evt/eventflow/mtl/json :
msg.payload : Object
{ "randomNumber": 41, "temp": 100, "hum": 82 }
11/18/2022, 9:46:49 PM node: a079eb35323bf5e3
iot-2/type/NodeMCUId/12345/evt/eventflow/mtl/json :
msg.payload : Object
{ "randomNumber": 38, "temp": 91, "hum": 92 }
11/18/2022, 9:54:08 PM node: a079eb35323bf5e3
iot-2/type/NodeMCUId/12345/evt/eventflow/mtl/json :
msg.payload : Object
{ "randomNumber": 48, "temp": 109, "hum": 96 }
```

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STEP 2: Generate debug message from IBM Watson IoT Platform and Connect the nodes.

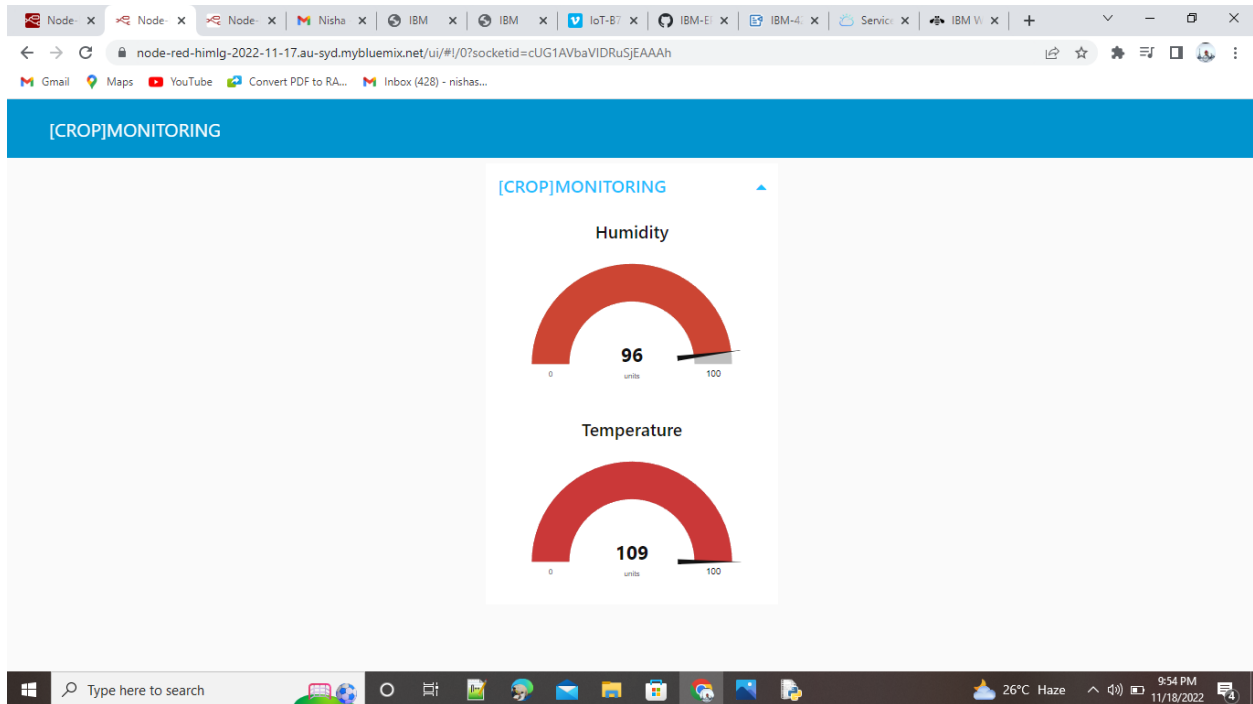
The screenshot displays the Node-RED web interface in a browser. The top navigation bar shows several open tabs, including 'Node-RED', 'Nisha', 'IBM', 'IoT-B7', 'IBM-E', 'IBM-4', 'Service', and 'IBM V'. The address bar shows the URL: `node-red-himlg-2022-11-17.au-syd.mybluemix.net/red/#flow/fc6ce66c936f4b6b`. The main workspace, titled 'Flow 1', contains a flow starting with an 'IBM IoT' node (labeled 'connected'). This node connects to a 'msg payload' node, which then branches into three parallel processing nodes: 'temperature node', 'humidity node', and 'Soil Moisture Node'. Each of these nodes connects to a corresponding output node: 'Temperature', 'Humidity', and 'Soil Moisture'. On the left sidebar, a 'gauge' node is visible under the 'dashboard' section. On the right, the 'debug' console is open, showing a series of log messages. Each message is a JSON object with a timestamp, node ID, and a payload containing random values for temperature, humidity, and soil moisture. The messages are as follows:

```
11/18/2022, 9:38:29 PM node: a079eb35323bf5e3  
iot-2/type/NodeMCU/id/12345/evt/eventflow/mtl/json :  
msg.payload : Object  
{  
  randomNumber: 74,  
  temp: 100,  
  hum: 90  
}  
  
11/18/2022, 9:41:49 PM node: a079eb35323bf5e3  
iot-2/type/NodeMCU/id/12345/evt/eventflow/mtl/json :  
msg.payload : Object  
{  
  randomNumber: 4,  
  temp: 99,  
  hum: 87  
}  
  
11/18/2022, 9:44:17 PM node: a079eb35323bf5e3  
iot-2/type/NodeMCU/id/12345/evt/eventflow/mtl/json :  
msg.payload : Object  
{  
  randomNumber: 41,  
  temp: 100,  
  hum: 82  
}  
  
11/18/2022, 9:46:49 PM node: a079eb35323bf5e3  
iot-2/type/NodeMCU/id/12345/evt/eventflow/mtl/json :  
msg.payload : Object  
{  
  randomNumber: 38,  
  temp: 91,  
  hum: 92  
}
```

The bottom of the image shows a Windows taskbar with a search bar and various application icons. The system tray on the right indicates a temperature of 26°C, 'Haze' weather, and the date/time as 9:49 PM on 11/18/2022.

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STEP 3:Generate the some output from recent events.



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