



## Sprint 2

TEAM ID	PNT2022TMID30647
Project Name	IoT Based smart crop Protection system for agriculture
Maximum mark	20 marks

TEAM LEAD:

**S. MONIKA**

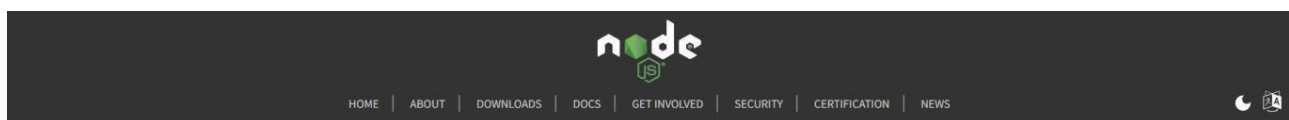
TEAM MEMBERS:

**T. CHARU VIKASHINI**

**N. AKSHAYA**

**R. SOORYA PRIYA**

STEP1: Download and Install NODE JS.



### Downloads

Latest LTS Version: 18.12.1 (includes npm 8.19.2)

Download the Node.js source code or a pre-built installer for your platform, and start developing today.



Windows Installer (.msi)  
Windows Binary (.zip)  
macOS Installer (.pkg)  
macOS Binary (.tar.gz)  
Linux Binaries (x64)

32-bit	64-bit
32-bit	64-bit
64-bit / ARM64	
64-bit	ARM64
64-bit	

STEP2: Setup node.js and configure command prompt for error check.open node-red from the generated link.

```
npm install node-red-dashboard@3.2.0

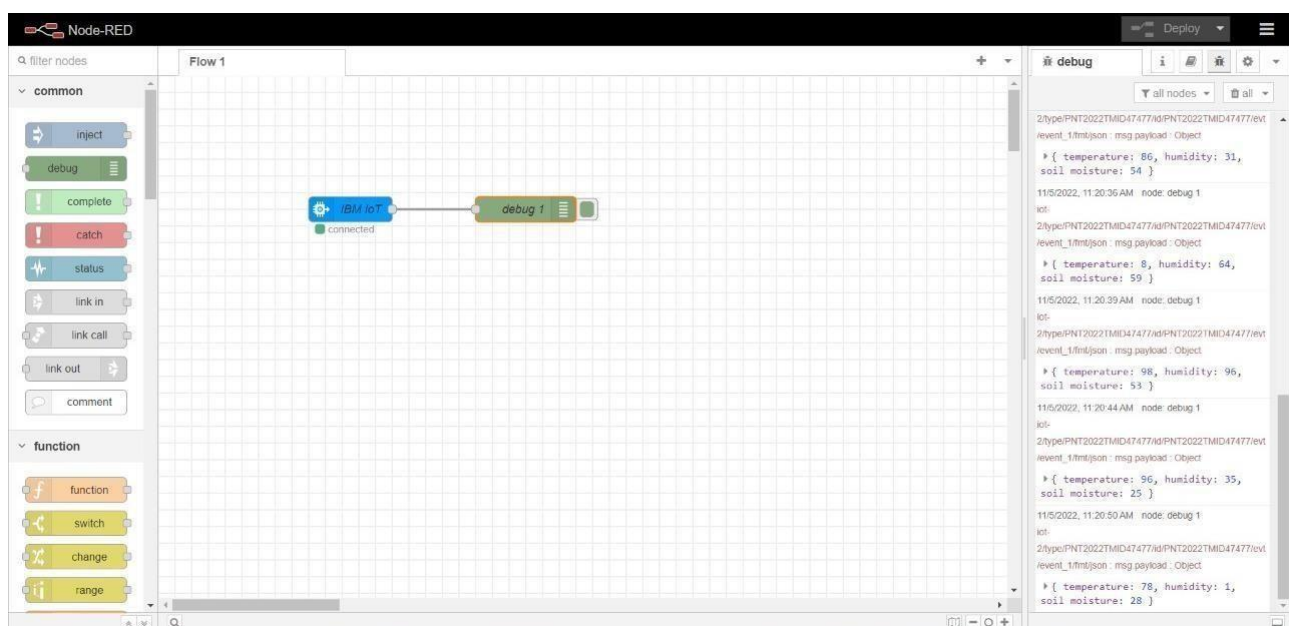
Welcome to Node-RED
-----
17 Nov 12:26:57 - [info] Node-RED version: v3.0.2
17 Nov 12:26:57 - [info] Node.js version: v18.12.1
17 Nov 12:26:57 - [info] Windows_NT 10.0.22000 x64 LE
17 Nov 12:26:57 - [info] Loading palette nodes
17 Nov 12:26:58 - [info] Settings file : C:\Users\charu\.node-red\settings.js
17 Nov 12:26:58 - [info] Context store : 'default' [module=memory]
17 Nov 12:26:58 - [info] User directory : \Users\charu\.node-red
17 Nov 12:26:58 - [warn] Projects disabled : editorTheme.projects.enabled=false
17 Nov 12:26:58 - [info] Flows file : \Users\charu\.node-red\flows.json
17 Nov 12:26:58 - [info] Creating new flow file
17 Nov 12:26:58 - [warn]

-----
Your flow credentials file is encrypted using a system-generated key.

If the system-generated key is lost for any reason, your credentials
file will not be recoverable, you will have to delete it and re-enter
your credentials.

You should set your own key using the 'credentialSecret' option in
your settings file. Node-RED will then re-encrypt your credentials
file using your chosen key the next time you deploy a change.
-----
17 Nov 12:26:58 - [warn] Encrypted credentials not found
17 Nov 12:26:58 - [info] Server now running at http://127.0.0.1:1880/
17 Nov 12:26:58 - [info] Starting flows
17 Nov 12:26:58 - [info] Started flows
17 Nov 12:47:45 - [info] Installing module: node-red-dashboard, version: 3.2.0
17 Nov 12:49:40 - [info] Installed module: node-red-dashboard
17 Nov 12:49:40 - [info] Dashboard version 3.2.0 started at /ui
17 Nov 12:49:40 - [info] Added node types:
17 Nov 12:49:40 - [info] - node-red-dashboard:ui_base
17 Nov 12:49:40 - [info] - node-red-dashboard:ui_button
17 Nov 12:49:40 - [info] - node-red-dashboard:ui_dropdown
17 Nov 12:49:40 - [info] - node-red-dashboard:ui_switch
17 Nov 12:49:40 - [info] - node-red-dashboard:ui_slider
17 Nov 12:49:40 - [info] - node-red-dashboard:ui_numeric
17 Nov 12:49:40 - [info] - node-red-dashboard:ui_text_input
17 Nov 12:49:40 - [info] - node-red-dashboard:ui_date_picker
17 Nov 12:49:40 - [info] - node-red-dashboard:ui_colour_picker
17 Nov 12:49:40 - [info] - node-red-dashboard:ui_form
17 Nov 12:49:40 - [info] - node-red-dashboard:ui_text
17 Nov 12:49:40 - [info] - node-red-dashboard:ui_gauge
17 Nov 12:49:40 - [info] - node-red-dashboard:ui_chart
```

STEP3: Connect IBM IOT in and Debug 1 and Deploy.



STEP4: Edit gauge node (Here the gauge nodes are named as Temperature, Humidity and Soil moisture).

