# IOT Based Smart Crop Protection system for Agriculture.

## Team ID - PNT2022TMID22829

**SOURCE CODE 2**

**Node-Red**

```
[{
    "id": "6f6388ce.d66ff8",
    "type": "tab",
    "label": "Smart Home ",
    "disabled": false,
    "info": ""
}, {
    "id": "de32937c.1a4b2",
    "type": "ibmiot in",
    "z": "6f6388ce.d66ff8",
    "authentication": "apiKey",
    "apiKey": "a-kd5lkd-oixaiqhhq",
    "inputType": "evt",
    "logicalInterface": "",
    "ruleId": "",
    "deviceId": "12345678",
    "applicationId": "",
    "deviceType": "ibm",
    "eventType": "+",
    "commandType": "",
```

        "format": "json",

        "name": "IBM IoT",

        "service": "registered",

        "allDevices": "",

        "allApplications": "",

        "allDeviceTypes": "",

        "allLogicalInterfaces": "",

        "allEvents": true,

        "allCommands": "",

        "allFormats": "",

        "qos": 0,

        "x": 150,

        "y": 180,

        "wires": [

            ["2fb9a728.2ccc08", "208f2a16.9d59d6", "239c7838.492078"]

        ]

    }, {

        "id": "b6c95a77.4b92b8",

        "type": "ui_gauge",

        "z": "6f6388ce.d66ff8",

        "name": "",

        "group": "685411b5.493c9",

        "order": 0,

        "width": "6",

        "height": "5",

        "gtype": "gage",

        "title": "Humidity",

        "label": "%",

        "format": "{{value}}",

        "min": 0,

        "max": "100",

        "colors": ["#00b500", "#e6e600", "#ca3838"],

        "seg1": "",

        "seg2": "",

        "x": 680,

        "y": 80,

        "wires": []
    }, {

        "id": "9c9891e9.2a40d",

        "type": "ui_gauge",

        "z": "6f6388ce.d66ff8",

        "name": "",

        "group": "685411b5.493c9",

        "order": 0,

        "width": "6",

        "height": "5",

        "gtype": "gage",

        "title": "Temperature",

        "label": "°C",

        "format": "{{value}}",

        "min": 0,

        "max": "100",

        "colors": ["#00b500", "#e6e600", "#ca3838"],

        "seg1": "",

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      "seg2": "",
    "x": 710,
    "y": 260,
    "wires": []
}, {
    "id": "208f2a16.9d59d6",
    "type": "function",
    "z": "6f6388ce.d66ff8",
    "name": "Temperature",
    "func": "msg.payload=msg.payload.d.temperature;\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "x": 410,
    "y": 260,
    "wires": [
        ["9c9891e9.2a40d", "239c7838.492078"]
    ]
}, {
    "id": "2fb9a728.2ccc08",
    "type": "function",
    "z": "6f6388ce.d66ff8",
    "name": "Humidity",
    "func": "msg.payload=msg.payload.d.humidity;\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "x": 400,
    "y": 100,
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```json
        "wires": [
            ["b6c95a77.4b92b8", "239c7838.492078"]
        ]
    }, {
        "id": "239c7838.492078",
        "type": "debug",
        "z": "6f6388ce.d66ff8",
        "name": "",
        "active": false,
        "tosidebar": true,
        "console": false,
        "tostatus": false,
        "complete": "false",
        "x": 690,
        "y": 180,
        "wires": []
    }, {
        "id": "1ec706a1.aa2fc9",
        "type": "ibmiot out",
        "z": "6f6388ce.d66ff8",
        "authentication": "apiKey",
        "apiKey": "a-kd5lkd-oixaiqhnhq",
        "outputType": "cmd",
        "deviceId": "kd5lkd",
        "deviceType": "ibm",
        "eventCommandType": "Home",
        "format": "String",
```

        "data": "Data",

        "qos": 0,

        "name": "IBM IoT",

        "service": "registered",

        "x": 620,

        "y": 360,

        "wires": []

    }, {

        "id": "625c4c91.2ea774",

        "type": "ui_button",

        "z": "6f6388ce.d66ff8",

        "name": "",

        "group": "685411b5.493c9",

        "order": 1,

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         "height": "0",

         "passthru": false,

         "label": "LIGHTON",

         "tooltip": "",

         "color": "",

         "bgcolor": "",

         "icon": "",

        "payload": "Lighton",

        "payloadType": "str",

        "topic": "",

        "x": 320,

        "y": 340,

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        "wires": [
            ["1ec706a1.aa2fc9"]
        ]
    }, {
        "id": "6ed71e25.29fd6",
        "type": "ui_button",
        "z": "6f6388ce.d66ff8",
        "name": "",
        "group": "685411b5.493c9",
        "order": 2,
        "width": "0",
        "height": "0",
        "passthru": false,
        "label": "LIGHTOFF",
        "tooltip": "",
        "color": "",
        "bgcolor": "",
        "icon": "",
        "payload": "lightoff", "payloadType":
        "str",
        "topic": "",
        "x": 330,
        "y": 420,
        "wires": [
            ["1ec706a1.aa2fc9"]
        ]
    }, {
        "id": "233183d6.16ba7c",
```

        "type": "ibmiot",

        "z": "",

        "name": "",

        "keepalive": "60",

        "serverName": "",

        "cleansession": true,

        "appId": "",

        "shared": false

    }, {

        "id": "685411b5.493c9",

        "type": "ui_group",

        "z": "",

        "name": "Smart Home", "tab": "2b496a4f.9c2286",

        "order": 1,

        "disp": true,

        "width": "6",

        "collapse": false

    }, {

        "id": "2b496a4f.9c2286",

        "type": "ui_tab",

        "z": "",

        "name": "Smart Home",

        "icon": "dashboard",

        "disabled": false,

        "hidden": false

    }]