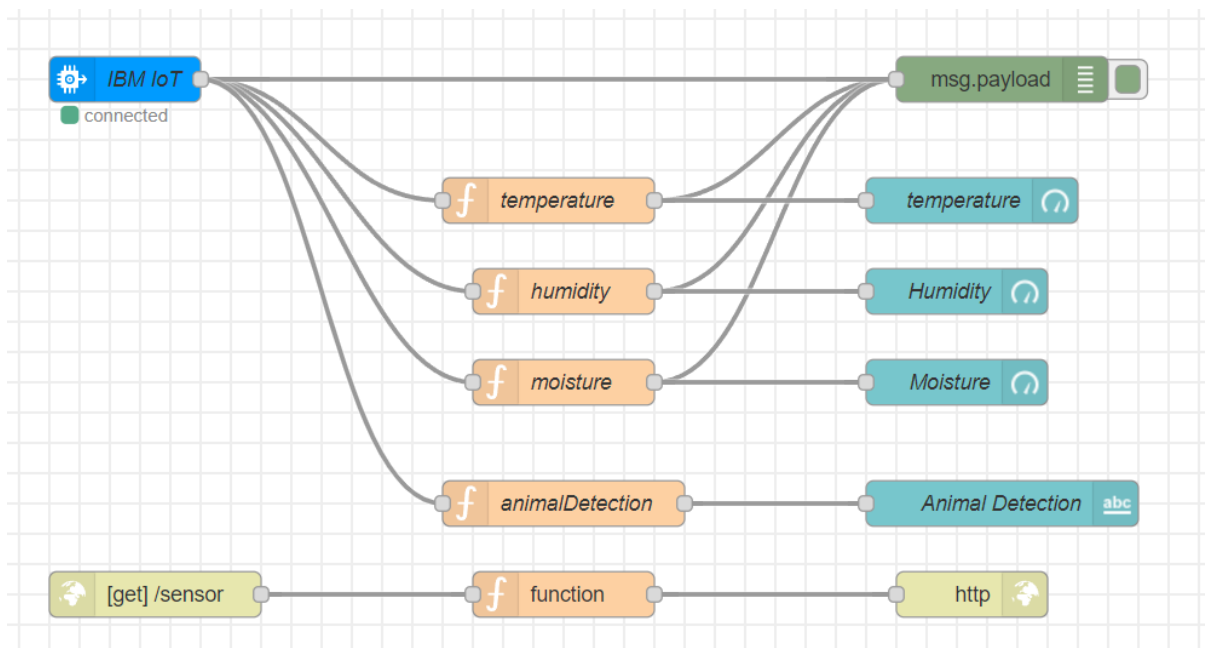# Sprint-4

Team ID: PNT2022TMID18045

Project Name: IoT Based Smart Crop Protection System for Agriculture

To receive data from Node-Red to Mobile App developed using MIT App Inventor.

Procedure:

1. In Node-Red, **http in** node is added to send data which are gathered from IBM Watson IoT Platform to webpage (159.122.175.111:30689/sensor).
2. Data from website which is published by Node-Red are collected in Screen 3 in the mobile application.
3. Data are displayed in Mobile Application developed using MIT App Inventor.

Node-Red:

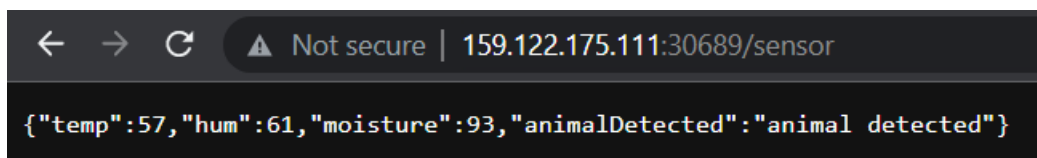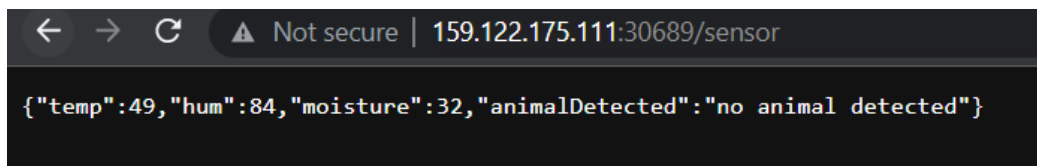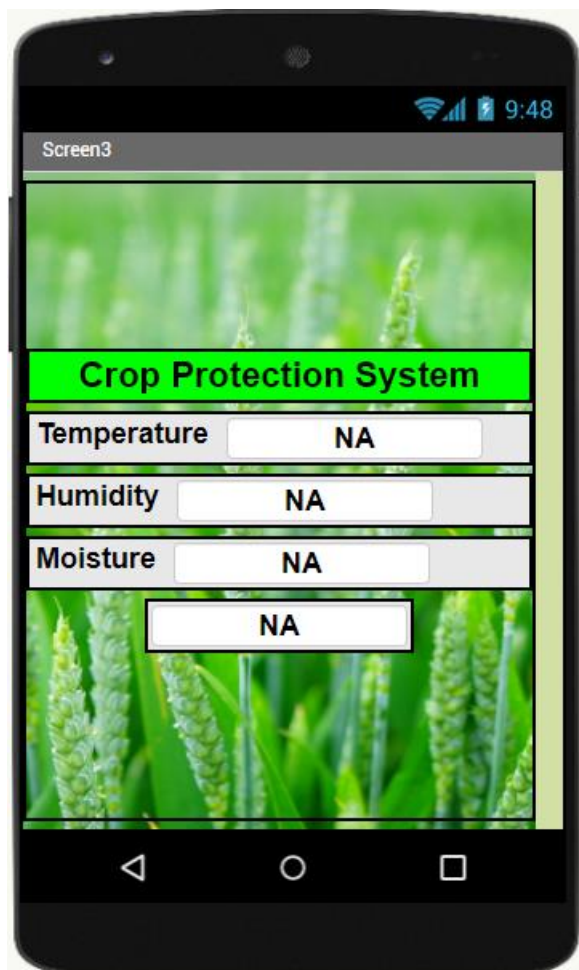**Source Code:**

```
msg.payload = {"temp":global.get("t"),
               "hum":global.get("h"),
               "moisture":global.get("m"),
               "animalDetected":global.get("a")};
return msg;
```

Web page:

{"temp":49,"hum":84,"moisture":32,"animalDetected":"no animal detected"}

{"temp":57,"hum":61,"moisture":93,"animalDetected":"animal detected"}

MIT Application:

Screen 3:

Screen 3 (Block):

```
when Clock1 .Timer
do  set Web1 . Url to   " http://159.122.175.111:30689/sensor "
    call Web1 .Get
```

```
when Web1 .GotText
url  responseCode  responseType  responseContent
do  set tempValue . Text to   look up in pairs  key   " temp "
                              pairs   call Web1 .JsonTextDecode
                                           jsonText   get responseContent
                              notFound   " not found "
    set humValue . Text to   look up in pairs  key   " hum "
                              pairs   call Web1 .JsonTextDecode
                                           jsonText   get responseContent
                              notFound   " not found "
    set moisValue . Text to   look up in pairs  key   " moisture "
                              pairs   call Web1 .JsonTextDecode
                                           jsonText   get responseContent
                              notFound   " not found "
    set animal . Text to   look up in pairs  key   " animalDetected "
                              pairs   call Web1 .JsonTextDecode
                                           jsonText   get responseContent
                              notFound   " not found "
```