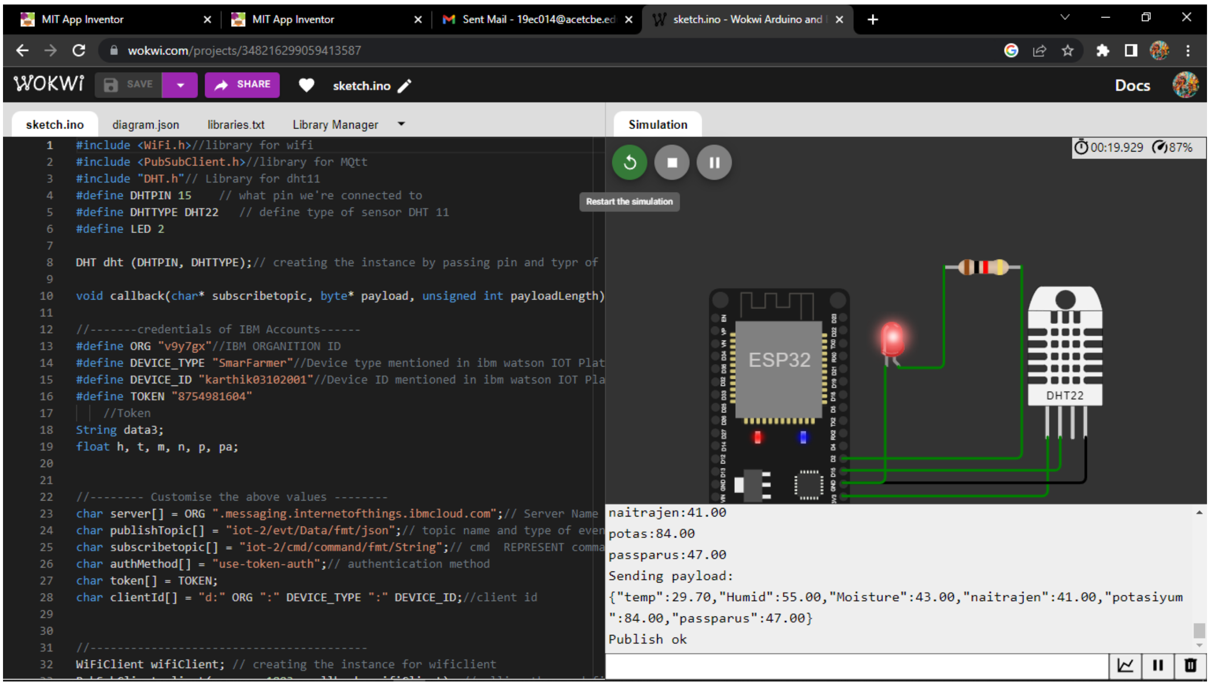
SPRINT 3 - MIT APP INVENTOR

Team ID	PNT2022TMID43471
Project Name	Smart Former IOT Based smart Farming Application
Max Mark	2 Mark

To make the user interact with software :

Link: http://ai2.appinventor.mit.edu/#5873177709117440



```
#include <WiFi.h>//library for wifi
#include <PubSubClient.h>//library for MQtt
#include "DHT.h"// Library for dht11
#define DHTPIN 15    // what pin we're connected to
#define DHTTYPE DHT22   // define type of sensor DHT 11
#define LED 2

DHT dht (DHTPIN, DHTTYPE);// creating the instance by passing pin and typr of

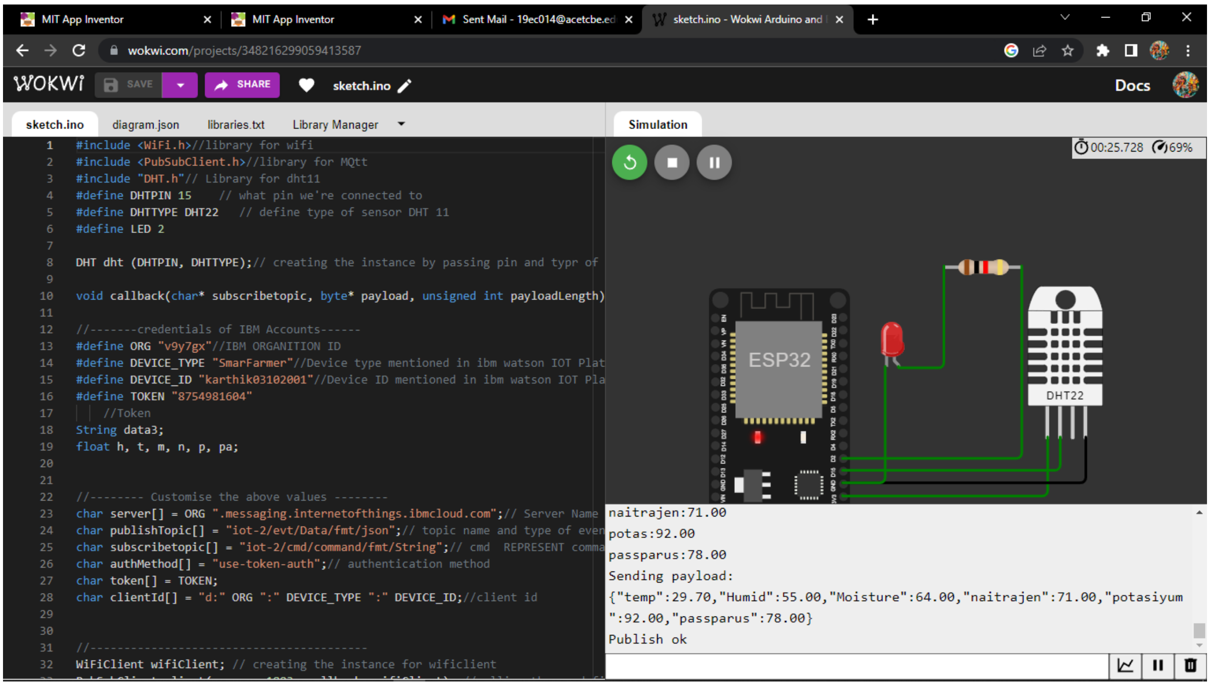
void callback(char* subscribetopic, byte* payload, unsigned int payloadLength)

//-------credentials of IBM Accounts------
#define ORG "v9y7gx"//IBM ORGANITION ID
#define DEVICE_TYPE "SmarFarmer"//Device type mentioned in ibm watson IOT Plat
#define DEVICE_ID "karthik03102001"//Device ID mentioned in ibm watson IOT Pla
#define TOKEN "8754981604"
    //Token
String data3;
float h, t, m, n, p, pa;


//-------- Customise the above values --------
char server[] = ORG ".messaging.internetofthings.ibmcloud.com";// Server Name
char publishTopic[] = "iot-2/evt/Data/fmt/json";// topic name and type of even
char subscribetopic[] = "iot-2/cmd/command/fmt/String";// cmd  REPRESENT comma
char authMethod[] = "use-token-auth";// authentication method
char token[] = TOKEN;
char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID;//client id


//-----------------------------------------
WiFiClient wifiClient; // creating the instance for wificlient
```

```
naitrajen:41.00
potas:84.00
passparus:47.00
Sending payload:
{"temp":29.70,"Humid":55.00,"Moisture":43.00,"naitrajen":41.00,"potasiyum
":84.00,"passparus":47.00}
Publish ok
```



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//-----------------------------------------
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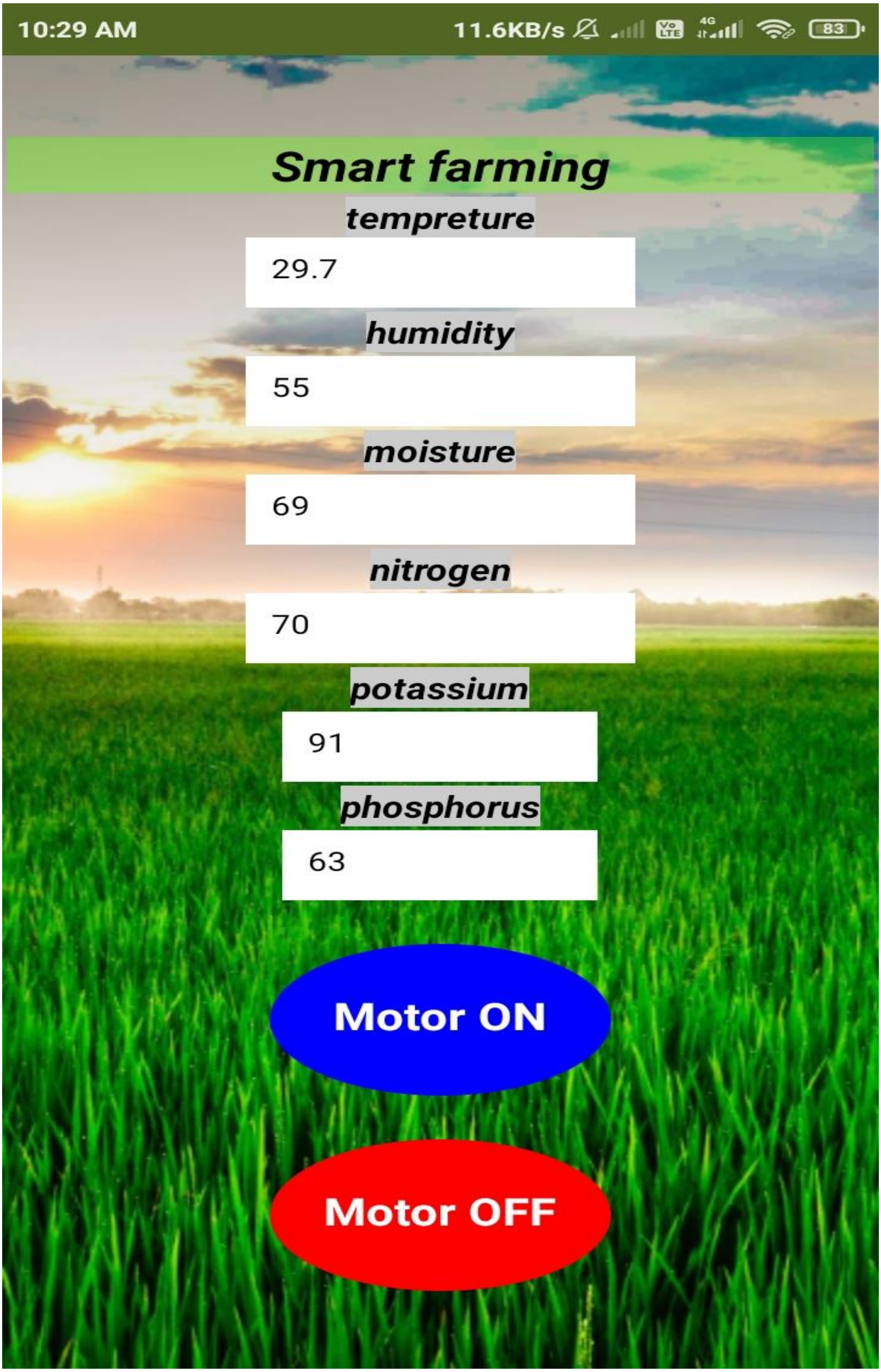
```

```
naitrajen:71.00
potas:92.00
passparus:78.00
Sending payload:
{"temp":29.70,"Humid":55.00,"Moisture":64.00,"naitrajen":71.00,"potasiyum
":92.00,"passparus":78.00}
Publish ok
```

(Note : Here we can use LED light instead of motor because there is no motor component in the simulation app)



Smart farming

tempreture

29.7

humidity

55

moisture

69

nitrogen

70

potassium

91

phosphorus

63