Sprint 3

Date	16 November 2022
Team ID	PNT2022TMID45187
Project Name	Smart Farmer-IoT Enabled smart
	Farming
	Application
Maximum Marks	4 Marks

INTRODUCTION:

The main aim of this project is to help farmers automate their farms by providing them with a Web App through which they can monitor the parameters of the field like Temperature, soil moisture, humidity and etc and control the equipment like water motor and other devices remotely via internet without their actual presence in the field.

Sprint-3

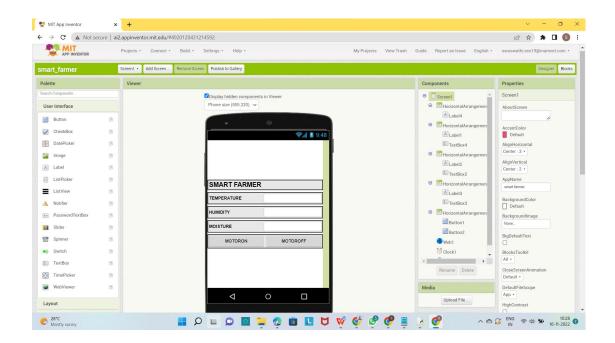
MIT App Inventor, Dashboard (Application for your project using MIT App, Design the model and test the App)

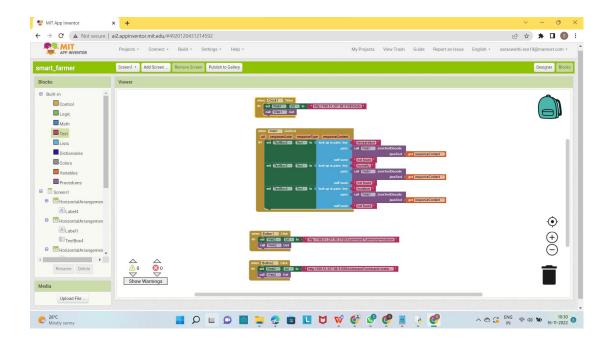
Steps to configure:

- 1) Create a account in the MIT App Inventor.
- 2) Then choose create apps and create a new project and name it.
- 3) Design the Designer and Blocks for your Requirement.

- 4) And connect with your MIT APP Companion in your phone (Install the MIT Companion using Playstore)
- 5) Finally run the program it shows the data to your mobile.

THE PROCESS:



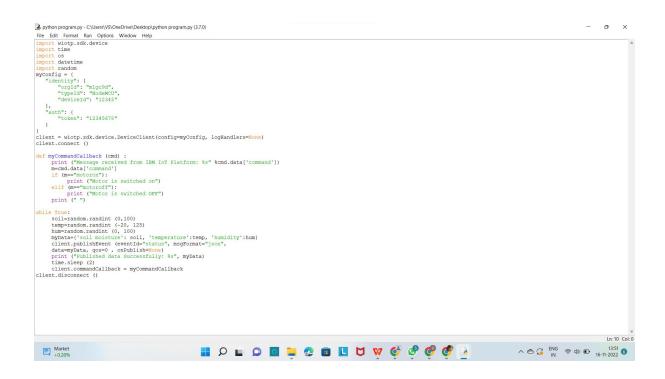


Python program

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig = {
    "identity": {
        "orgId": "mlgc9d",
        "typeId": "NodeMCU",
        "deviceId": "12345"
    },
    "auth": {
```

```
"token": "12345678"
   }
}
client = wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None)
client.connect()
def myCommandCallback (cmd):
     print ("Message received from IBM IoT
Platform: %s" %cmd.data['command'])
     m=cmd.data['command']
     if (m=="motoron"):
           print ("Motor is switched on")
     elif (m=="motoroff"):
           print ("Motor is switched OFF")
     print (" ")
while True:
     soil=random.randint (0,100)
     temp=random.randint (-20, 125)
     hum=random.randint (0, 100)
```

```
myData={'soil moisture': soil, 'temperature':temp,
'humidity':hum}
    client.publishEvent (eventId="status", msgFormat="json",
    data=myData, qos=0 , onPublish=None)
    print ("Published data Successfully: %s", myData)
    time.sleep (2)
    client.commandCallback = myCommandCallback
client.disconnect ()
```



Program output

```
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Fython 3.7.0 (v6.7.0.01156x5558), Jun 27 2018, 04159551) [MEC v.1314 66 bit (MM064)] on win12

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Mobile Application output using MIT inventor

