SPRINT 4

Date	18 November 2022
Team ID	PNT2022TMID44065
Project Name	Project – Smart Farmer-IoT Enabled smart
	Farming Application

TEAM MEMBERS:-

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PYTHON SCRIPT:-

import time import sys import ibmiotf.application import ibmiotf.device import random

```
organization = "zxnybt"
deviceType = "dominators"
deviceId = "12345"
authMethod = "token"
authToken = "123456789"
```

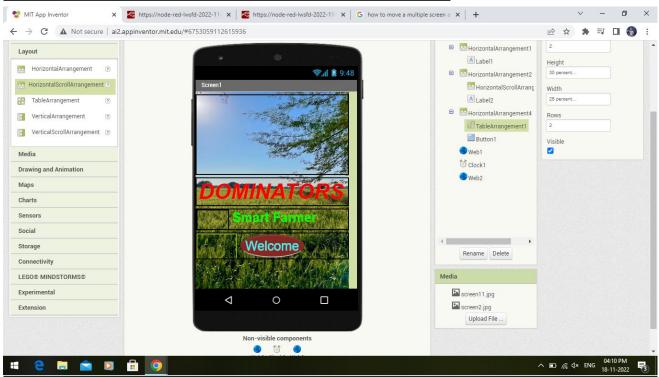
```
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data)
    for key in cmd.data.keys():
        if key == 'motor':
            if cmd.data['motor'] == 'ON':
                 print("MOTOR is turned ON")

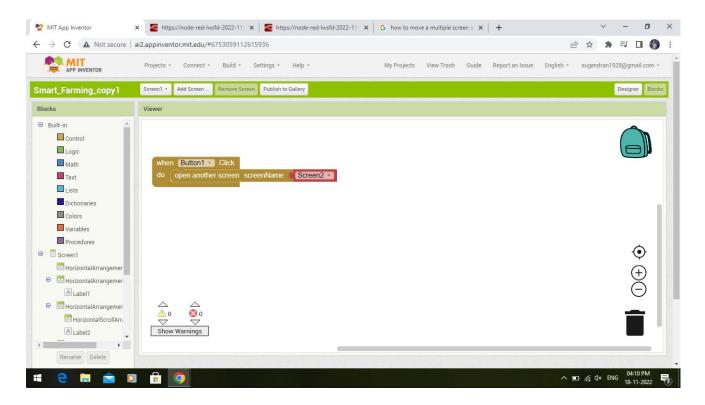
        elif cmd.data['motor'] == 'OFF':
                 print("MOTOR is turned OFF")
```

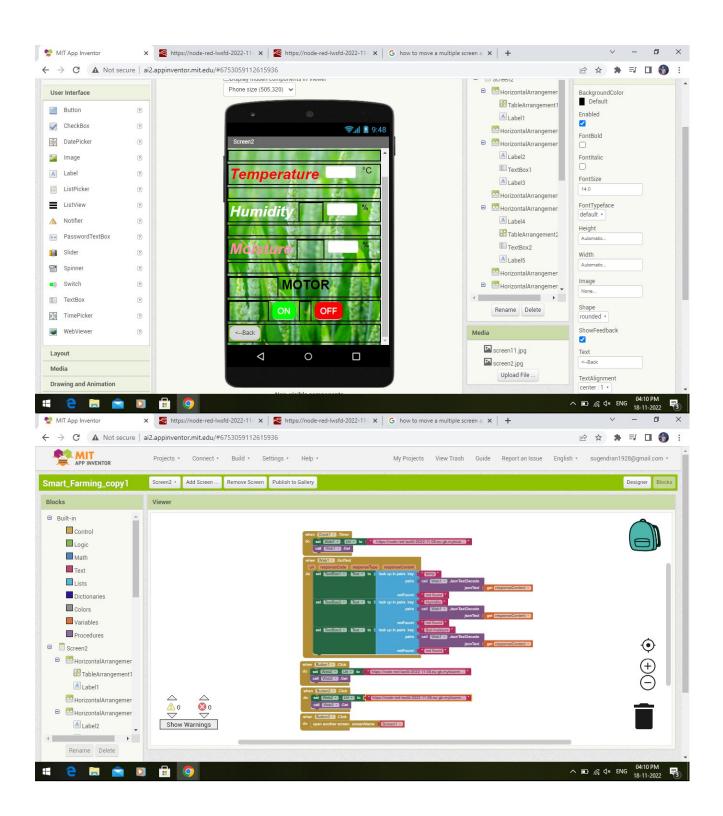
```
deviceOptions = {"org": organization, "type": deviceType, "id":
deviceId, "auth-method": authMethod, "auth-token": authToken}
  deviceCli = ibmiotf.device.Client(deviceOptions)
except Exception as e:
  print("Caught exception connecting device: %s" % str(e))
  sys.exit()
deviceCli.connect()
while True:
    temp=random.randint(0,40)
    Humid=random.randint(0,100)
    moist=random.randint(0,40)
    data = { 'temperature' : temp, 'humidity': Humid, 'soil moisture':moist
}
    def myOnPublishCallback():
      print ("Published Temperature = %s C" % temp, "Humidity = %s
%%" % Humid, "soil moisture =%s" % moist, "to IBM Watson")
    success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on publish=myOnPublishCallback)
    if not success:
      print("Not connected to IoTF")
    time.sleep(10)
    deviceCli.commandCallback = myCommandCallback
```

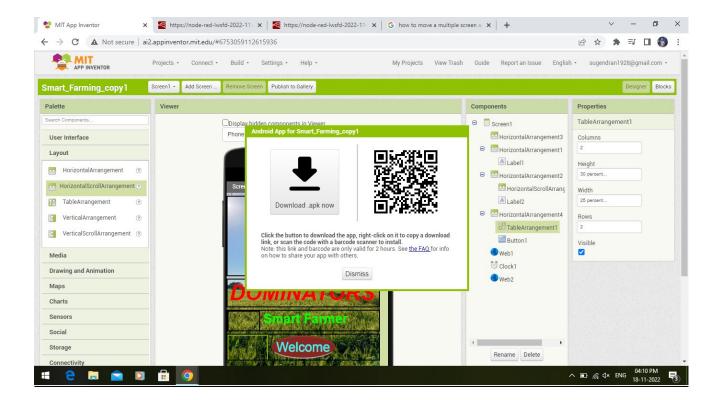
deviceCli.disconnect()

USER APPLICATION OR MOBILE APPLICATION:-

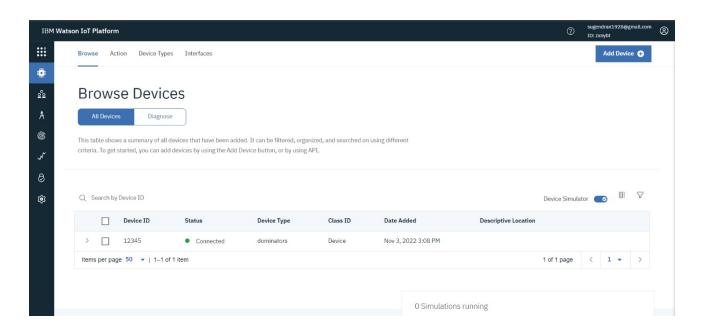








PYTHON SCRIPT CONFIGURED TO IBM WATSON IoT PLATFORM:-



THE SENSOR DATAS IN THE PYTHON SCRIPT WILL BE RECEIVED BY IBM WATSON IOT PLATFORM:-

