SPRINT 4

Date	17 November 2022
Team ID	PNT2022TMID02650
Project Name	SMARTFARMER – IoT ENABLED SMARTFARMING APPLICATION

Python Script:

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
organization = "1yc3ld"
deviceType = "1212"
deviceId = "1234567"
authMethod = "token"
authToken = "RypUYMBPbR0ndbf3f7"
def myCommandCallback(cmd):
  print("Command received: %s" % cmd.data['command'])
  status=cmd.data['command']
  if status=="Motor":
    print ("Motor is on")
  else:
    print ("Motor is off")
try:
       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(0,100)
    Humid=random.randint(0,100)

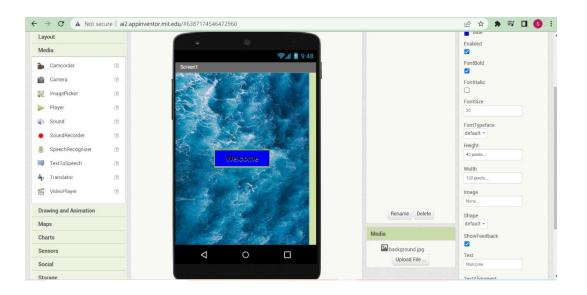
data = { 'temp' : temp, 'Humid': Humid }
    def myOnPublishCallback():
        print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % Humid, "to
IBM Watson")

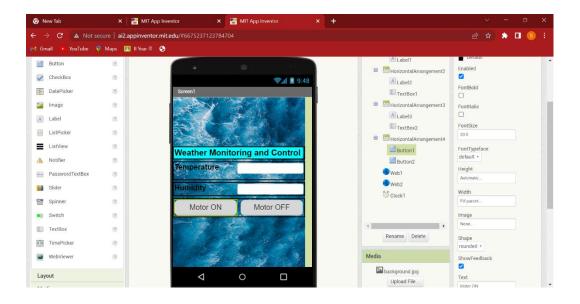
success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on_publish=myOnPublishCallback)
    if not success:
        print("Not connected to IoTF")
        time.sleep(1)

deviceCli.commandCallback = myCommandCallback

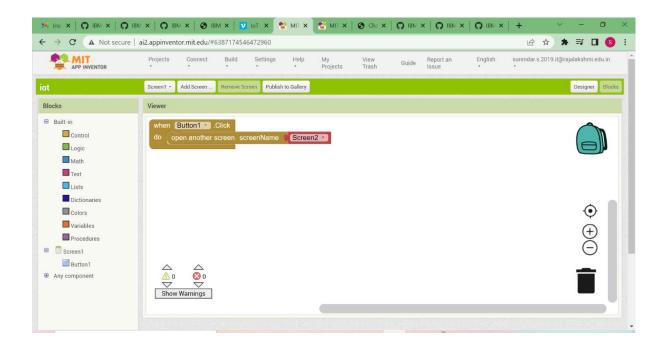
deviceCli.disconnect()
```

MIT App Creation:-



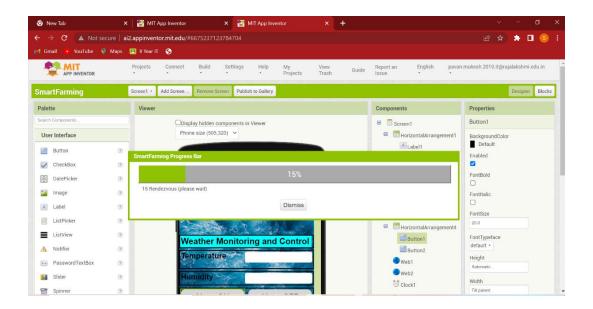


Blocks:-





MIT app connection



SCRIPT WILL BE RECEIVED BY IBM WATSON IOT PLATFORM:-

