SPRINT-2

Date	31 OCT 2022
Team ID	PNT2022PMID11540
Project	Iot Based Smart Crop Protection System For Agriculture
Maximum marks	8 MARKS

MIT APP:
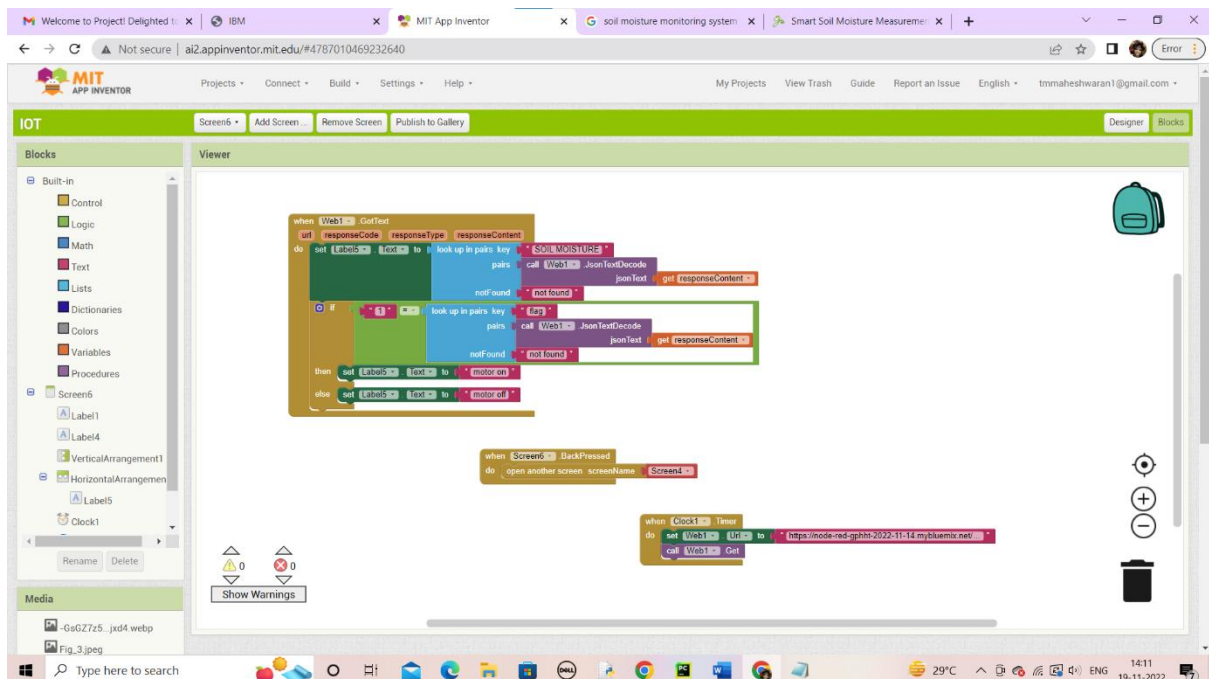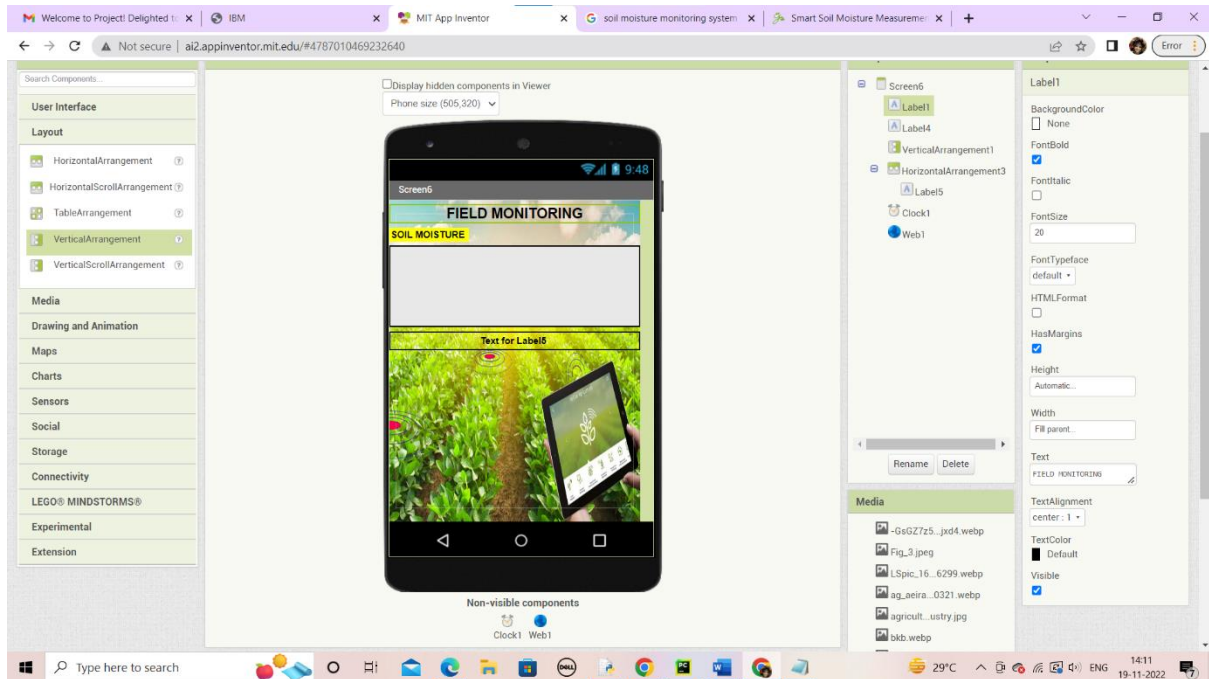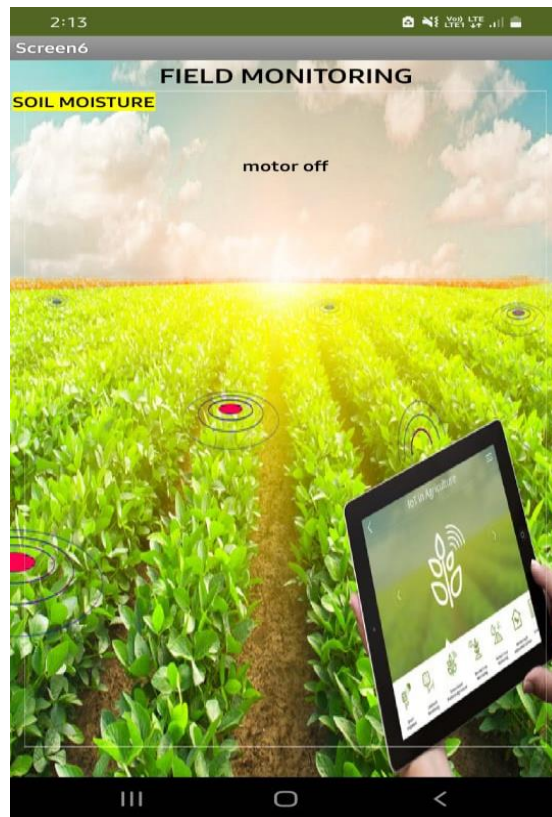
PYTHON SCRIPT:


```python
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId":"ozexmo",
        "typeId":"rasberrypi",
        "deviceId":"12345"
        },
        "auth": {
            "token":"12345678"
        }
}
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" %cmd.data['command'])
    m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
    soil = random.randint(0, 100)
    temp=random.randint(-25,125)
    hum=random.randint(0,100)
    if soil<50:
        myData = {'d': {'temperature': temp, 'humidity': hum,'soil':soil,'flag': 1}}
    else:
        myData = {'d': {'temperature': temp, 'humidity': hum,'soil':soil,'flag': 0}}
        client.publishEvent(eventId="Data", msgFormat="json", data=myData, qos=0,onPublish=None)
myCommandCallback()
```

```
Published data Successfully: %s {'d': { temperature : 18, humidity : 99, soil : 14, flag : 1}}
Published data Successfully: %s {'d': {'temperature': 24, 'humidity': 82, 'soil': 43, 'flag': 1}}
```

NODE RED CONNECTION:

{"flag":1,"temp":74,"hum":41,"s":32}

{"flag":1,"temp":74,"hum":41,"s":32}