SmartFarmer - IoT Enabled Smart Farming Application

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FINAL CODE

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
    "orgId": "trodnx",
    "typeId": "testmydevice",
    "deviceId":"12345"
  },
  "auth": {
    "token": "12345678"
  }
```

```
def myCommandCallback(cmd):
  print("Message received from IBM IoT Platform: %s" %
cmd.data['command'])
  m=cmd.data['command']
  if (m=="MOTOR ON"):
    print ("Motor is switched on")
  elif (m=="MOTOR OFF"):
    print ("Motor is switched OFF")
  print (" ")
client = wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None)
client.connect()
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 ()
```