SPRINT 1

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Date28 OCTOBER 2022Team IDPNT2022TMID18437Project NameSmart Farmer-IOT Enabled Smart Farming Application
```

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*Python 3.7.0 Shell*
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
         022-11-18 19:55:21,981 ibmiotf.device.Client INFO ly: d:ptrr0s:Obstacle:100
Published Level = 90 % to IBM Watson
Published Level = 19 % to IBM Watson
Published Level = 73 % to IBM Watson
Published Level = 16 % to IBM Watson
Command received: MotorOn
Motor is running
Published Level = 92 % to IBM Watson
Published Level = 81 % to IBM Watson
Command received: MotorOff
Motor is switched Off
Published Level = 72 % to IBM Watson
Motor_Project.py - E:\IBM\Code\Motor_Project.py (3.7.0)

File Edit Format Run Options Window Help
        print("Motor is running")
        dis =random.randint(0,100)
        data = { 'Distance' : dis}
success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publish=myOnPublishCallback)
         if dis > 95 :
    print("Motor is switched Off, Tank Full!")
if not success:
        print("Not connected to IoTF")
deviceCli.commandCallback = myCommandCallback
```

```
*Python 3.7.0 Shell*
  File Edit Shell Debug Options Window Help
   Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD6
  Type "copyright", "credits" or "license()" for more information.
        2022-11-18 19:58:53,183 ibmiotf.device.Client
2022-11-18 19:58:53,183 ibmiotf.device.Client
2022-11-18 19:58:54,465 ibmiotf.device.Client
2022-11-18 19:58:54,465 ibmiotf.device.Client
  Command received: Servo10ff
  Control valve for Field2 is Open!
              deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "auth-teviceOptions1 = {"org": organization, "type": deviceTypel, "id": deviceIdl, "auth-method": authMethod, "authdeviceCli = ibmiotf.device.Client(deviceOptions) deviceOli1 = ibmiotf.device.Client(deviceOptions)
             Project.py - E:\UBM\Code\Project.py (3.7.0)
          sys
ibmiotf.application
ibmiotf.device
random
|Provide your IBM Watson Device Credentials

organization = "ptrr0s"

deviceType = "Field1"

deviceId = "1001"

deviceId1 = "1002"

deviceId1 = "1002"

authMethod = "token"

authToken = "12345678"
    myCommandCallback(cmd):
print("Command received: %s" % cmd.data['command'])
if status == "ServolOn":
    print ("Control valve for Field1 is Open!")
    elif status == "ServolOff":
        print ("Control valve for Field1 is Closed!")
    elif status == "Servo2On":
        print ("Control valve for Field2 is Open!")
    elif status == "Servo2Off":
        print ("Control valve for Field2 is Closed!")
    else:
        print ("Control valve for Field2 is Closed!")
```