

SMART FARMER-IOT Enabled Smart Farming Application

TITLE	SMART FARMER-IOT Enabled Smart Farming Application
TEAM ID	PNT2022TMID44437
TEAM LEADER NAME	SATHIYA PRIYA K
TEAM MEMBER NAME	JAGADEESH KUMAR G KEMPARAJ K SABARI GAYATHIRI A NANDHINI P
MENTOR NAME	KOKILA

Develop a python script to publish and subscribe to IBM IOT platform

```
import time

Importsys

import ibmiotf.application

# to install this package run "pip install ibmiotf"

import ibmiotf.device

#Provide your IBM IOT platform organization, device type, device ID, and application ID
organization = "YourOrganization"

DeviceType = "YourDeviceType"

DeviceId = "YourDeviceID"

AppId = "YourApplicationID"

# Initialize the device client.

try:
```

```
    DeviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method":  
"token", "auth-token":
```

```
"YourAuthenticationToken"}
```

```
    DeviceClient = ibmiotf.device.Client(deviceOptions)
```

```
except Exception as e:
```

```
    print("Caught exception connecting device: %s" %str(e))
```

```
    sys.exit()
```

```
# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type  
"greeting" 10 times
```

```
DeviceClient.connect()
```

```
for x in range(0, 10):
```

```
    data = { 'hello' : 'world' }
```

```
    DeviceClient.publishEvent("greeting", "json", data)
```

```
    time.sleep(1)
```

```
# Disconnect the device client
```

```
Device Client . disconnect ()
```