

# **IOT      ENABLED SMARTFARMING APPLICATION**

## **DEVELOPE A PYTHON CODE**

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### **PYTHON CODE :**

```
import time
import sys
import ibmiotf.application # to install pip install ibmiotf
import ibmiotf.device
```

```
#Provide your IBM Watson Device Credentials
organization = "x0cl0i"
deviceType = "ndemcu"
deviceId = "sensor"
authMethod = "use-token-auth"
authToken = "6GsCaVQ3-PfYy+J3ts"
```

```
def myCommandCallback(cmd): # function for Callback
    print("Command received: %s" % cmd.data)
    if cmd.data['command']=='motoron':
        print("Motor On IS RECEIVED")

    elif cmd.data['command']=='motoroff':
        print("Motor Off IS RECEIVED")

    if cmd.command == "setInterval":
```

```

        if 'interval' not in cmd.data:
            print("Error - command is missing required information: 'interval'")
        else:
            interval = cmd.data['interval']
    elif cmd.command == "print":
        if 'message' not in cmd.data:
            print("Error - command is missing required information: 'message'")
        else:
            output=cmd.data['message']
            print(output)

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()

# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting"
10 times
deviceCli.connect()

while True:

    deviceCli.commandCallback = myCommandCallback

# Disconnect the device and application from the cloud
deviceCli.disconnect()

```

Python 17 (64-bit)

Python 1.7.5 (tags/v1.7.5:5c02a9ae0, Oct 15 2019, 00:11:34) [MSC v.1916 64 bit (AMD64)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
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