Smart Farmer - IOT Enabled Smart FarmingApplication

SPRINT-1

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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 = "1jk4ps"

deviceType = "NODEMCU1"

deviceId = "12345"

authMethod = "token"

```
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:
```

authToken = "*ev9TDcZDdKDBUA81@"

```
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()

Output:-





