SOURCE CODE

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PROJECT NAME : IOT Based Smart crop protection for Agriculture

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

#Provide your IBM Watson Device Credentials
organization = "hrodmj" #replace the ORG ID
deviceType = "NODEMCU1"#replace the Device type wi
deviceId = "12345"#replace Device ID
authMethod = "token"
authToken = "kp1234" #Replace the authtoken

def myCommandCallback(cmd): # function for Callback
        print("Command received: %s" % cmd.data)
if cmd.data['command']=='motoron':
        print("Motor On IS RECEIVED")
    if cmd.command == "setInterval":
if 'interval' not in cmd.data:
            print("Error - command is missing required information: 'interval'")
else:
```

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interval = cmd.data['interval']

        elif cmd.command == "print":

if 'message' not in cmd.data:

        print("Error - command is missin

g required information: 'message'")

else:

        output=cmd.data['message']

        print(output)


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()
```