FINALCODE

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**PROJECTNAME**:IOTBasedSmartcropprotectionfor Agriculture

import timeimportsys

import ibmiotf.application # to install pip install ibmiotfimportibmiotf.device

#Provide your IBM Watson Device Credentialsorganization = "hrodmj" #replace the ORG IDdeviceType = "NODEMCU1"#replace the Device type wideviceId="12345"#replaceDeviceID

authMethod="token"

authToken="kp1234"#Replacetheauthtoken

def myCommandCallback(cmd): # function for Callbackprint("Commandreceived:%s"%cmd.data)

if cmd.data['command']=='motoron':print("Motor OnISRECEIVED")

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

ifcmd.command=="setInterval":

if'interval'notincmd.data:

print("Error - command is missing required information: 'interval'")else:

interval = cmd.data['interval']elifcmd.command=="print":

if'message'notincmd.data:

print("Error - command is missing 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)#..............................................

exceptException ase:

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"10times

deviceCli.connect()whileTrue:

deviceCli.commandCallback = myCommandCallback#Disconnect the device and application from the clouddeviceCli.disconnect()