FINAL CODE

PROJECT NAME: IOT Based Smart crop protection for Agriculture 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") elif cmd.data['command']=='motoroff': print("Motor Off IS RECEIVED") if cmd.command == "setInterval":

if 'interval' not in cmd.data:

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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)
       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()
```