Source code 1

Python code

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

#Provide your IBM Watson Device Credentials
organization = "kdldkd" #replace the ORG ID
deviceType = "smartcropprotectio123"#replace the Device type wi
deviceId = "87654321"#replace Device ID
authMethod = "token"
authToken = "12345678" #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":
```

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            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()
```