FINAL CODE

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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":
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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)
 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()
```