# FINAL CODE

**TEAM ID** : PNT2022TMID16395

**PROJECT NAME** : IOT Based Smart crop protection for Agriculture

```python
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:
```

```
            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()
```