FINAL CODE

TEAM ID : PNT2022TMID13481

**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:

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()