DEVELOP A PYTHON SCRIPT

|  |  |
| --- | --- |
| **TEAM ID** | **PNT2022TMID53703** |
| **PROJECT NAME** | **IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE** |

import time import sys

import ibmiotf.application import ibmiotf.device import random\

#Provide your IBM Watson Device Credentials organization ="8osflk"

deviceType = "cropprotection99" deviceId = "cropprotection99" authMethod="token"

authToken ="duiH-8z@4u@JXTmx20" # InitializeGPIO

def myCommandCallback(cmd):

print("Command received: %s" %cmd.data['command']) status =cmd.data['command']

if status=="lighton": print("led on")

else:

print("led off") #print(cmd)

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()

#Connectandsendadatapoint"hello"withvalue"world"intothecloudasaneventoftype"greeting "10times

deviceCli.connect()

while True: #GetSensorDatafromDHT11

temp=random.randint(0,100) humid=random.randint(0,100)

data={'temperature':temp,'humidity':humid} #printdata

def myOnPublishCallback():

print("Published Temperature=%s C" %temp,"Humidity=%s %%" % humid,"to IBMWatson")

success=deviceCli.publishEvent("IoTSensor","json",data,qos=0,on\_publish=myOnPublishCallb ack)

if not success: print("NotconnectedtoIoTF")

time.sleep(1)

deviceCli.commandCallback=myCommandCallback

#Disconnectthedeviceandapplicationfromthecloud deviceCli.disconnect()

