DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSRIBE TO IBM IOT PLATFORM

PYTHON CODE:

import time

import sys

import ibmiotf.application

import ibmiotf.device

import random

#Provide your IBM Watson Device Credentials

organization = "rr454u"

deviceType = "sensor\_1"

deviceId = "sensor"

authMethod = "token"

authToken = "uQ@5ONlr2&eKy\*pof\*"

def myCommandCallback(cmd):

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

print(cmd)

Project Name Smart Farmer-IoT Enabled Smart

Farming Application

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:

temperature=random.randint(0,100)

humidity=random.randint(0,100)

soil= random.randint(0,100)

data = {'temperature' : temperature, 'humidity': humidity ,'soil':soil}

#print data

def myOnPublishCallback():

print ("Published Temperature = %s C" % temperature, "Humidity = %s

%%" % humidity, "soil Moisture = %s %%"% soil,"to IBM Watson")

success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,

on\_publish=myOnPublishCallback)

if not success:

print("Not connected to IoTF")

time.sleep(1)

deviceCli.commandCallback = myCommandCallback

# Disconnect the device and application from the cloud

deviceCli.disconnect()