Date	18 November 2022
Team ID	PNT2022TMID04540
Project Name	Project – Smart Farmer-IoT Enabled smart Farming Application

PYTHON PROGRAM TO GET CONNECTED WITH IBM IOT WATSON PLATFORM:

Python code: import wiotp.sdk.device import time import datetime import random myConfig = { "identity": { "orgId": "c6x83q", "typeId": "TestDeviceType", "deviceId":"12345" }, "auth": { "token": "QZvsZ3UmMIicuzf0Gt" } client=wiotp.sdk.device.DeviceClient(config=myConfig,logHandlers=None) client.connect() def myCommandCallback(cmd): print("Message recevied from IBM IOT platform: %s" % cmd.data ['command']) m=cmd.data['command'] if(m=="motoron"): print("Motor is switched on") elif(m=="motoroff"): print("Motor is switched off") print(" ") while True: soil=random.randint(18,24) temp=random.randint(21,37) hum=random.randint(60,80) soil_ph=random.randint(5,10) Co2=random.randint(900,1300) myData={'soil_moisture':soil,'temperature':temp,'humidity':hum,'soil_ph':soil_ph,'Co2':Co 2} client.publishEvent(eventId="status",msgFormat="json",data=myData,qos=0,onPublish=N print("published data sucessfully:%s",myData)

time.sleep(5)

client.commandCallback=myCommandCallback client.disconnect()

OUTPUT:

