PROJECT DEVELOPMENT-DELIVERY OF SPRINT PHASE 1

DATE	18 NOVEMBER 2022
TEAM ID	PNT2022TMID26610
PROJECT NAME	Name Project – Smart Farmer-IoT Enabled smart Farming Application

Python code:

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig ={
 "identity": {
  "orgId": "osr5tj",
  "typeId": "EPS07_Controller",
  "deviceId": "0707"
 },
 "auth": {
  "token": "@DOm9&k8Fehe ntg5n"
 }
client = wiotp.sdk.device.DeviceClient (config=myConfig, logHandlers=None)
client.connect()
def myCommandCallback(cmd):
 print("Message received form IBM IoT Platform: %s" % cmd.data['command'])
```

```
m=cd.data['command']
 if(m=="motoron"):
  print("Motor is switched on")
 elif(m=="motoroff"):
  print("Motor is switched OFF")
 print(" ")
while True:
 soil=random.randint(0,100)
 temp=random.randlint(-20,125)
 hum=random.randint(0,100)
 myData={'soil moisture':soil, 'temperature':temp, 'humidity':hum}
 client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,onPublish
=None)
 print("Published data Successfully:%s", myData)
 time.sleep(2)
 client.commandCallback=myCommandCallback
client.disconnect()
```

```
o x
smartfarmer.py - C:\Users\Yokesh\Downloads\smartfarmer.py (3.7.4)
 File Edit Format Run Options Window Help
  mport wiotp.sdk.device
   mport datetime
           random
 myConfig ={
             "identity": (
                          orgId": "osrStj",
                        "typeId": "EPS07_Controller",
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               , auth":{
    "token": "@DOm9&k8Fehe_ntg5n"
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 client.connet()
 def myCommandCallback(cmd):
             print("Message remed.data['comman
                                         eived form IBM IoT Platform: %s" % cmd.data['command'])
                                    and']
            m=od.data('command')
if (m=="motoron"):
print("Motor is switched on")
elif(m=="motoroff"):
print("Motor is switched OFF")
print(" ")
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myData=('soil moisture':soil, 'temperature':temp, 'humidity':hum)
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,onPublish =None)
print("Published data Successfully:%s", myData)
             print("Fublished was a
time.sleep(2)
client.commandCallback=myCommandCallback
client.comm
client.disconnect()
```

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