SRI SAIRAM ENGINEERING COLLEGE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SMART FARMER – IOT ENABLED SMART FARMING APPLICATION

IBM NALAIYATHIRAN

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

TITLE	Smart Farmer – IoT enabled Smart Farming Application
	В фринцип
DOMAIN NAME	Internet of Things
TEAM ID	PNT2022TMID04114
TEAM LEADER	PADHMASHREE.S
TEAM MEMBERS	JYOTI PAL
	HEMA MALINI.S
	HEMALATHA.G
NACALTOD NIANAC	IZ CLIDITACIJINI
MENTOR NAME	K. SUBHASHINI

PROGRAM:

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig = {
  "identity": {
    "orgId": "0ooi4r",
    "typeId": "Device0",
    "deviceId": "262605",
  }
  "auth": {
    "token": "098765432"
client = wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None)
client.connect()
```

```
def myCommandCallback(cmd):
  print("Message received 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=ramdom.randint(0,100)
  temp=ramdom.randint(-20,125)
  hum=ramdom.randint(0,100)
  myData={'soil moisture': soil, 'temperature':temp,
'humidity':hum}
  clint.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()
```