

GOVERNMENT COLLEGE OF ENGINEERING CHETTIKARAI, DHARMAPURI



SMART FARMER – IOT ENABLED SMART FARMING APPLICATION

IBM NALAIYATHIRAN

Project Development-Delivery of Sprint 4

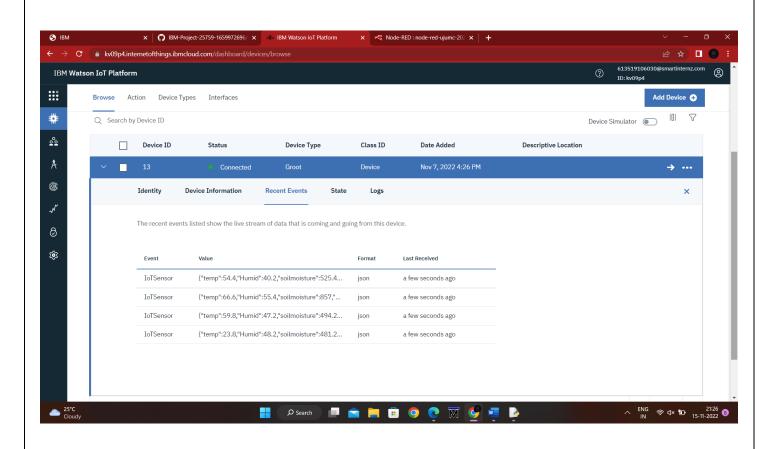
Connecting and configuring the services and debug the errors

	Smart Farmer
TITLE	IoT Enabled Smart Farming Application
DOMAIN NAME	INTERNET OF THINGS
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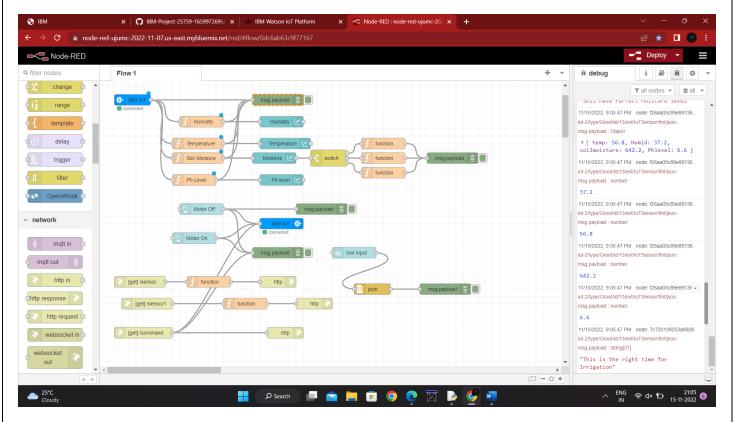
Python Code:

```
*Python 3.7.0 Shell*
BM iot.py - D:\IBM project\IBM iot.py (3.7.0)
                                                                                                                                                                                                                                                                                                    ×
 File Edit Format Run Options Window Help
                                                                                                                                                      File Edit Shell Debug Options Window Help
 import sys
import ibmiotf.application
import ibmiotf.device
import random
                                                                                                                                                     T: 2
H: 73
S: 86
P: 12
#Provide your IBM Watson Device Credentials
organization = "kv09p4"
devicetype = "Groot"
devicetd = "13"
authMethod = "token"
authNoken = "12345678"
global flag=0
nsint(input("Enter no of Field Divisions"))
      nt(input("Enter no of Field Divisions"))
                                                                                                                                                     Published Temperature = 39.8 C Humidity = 56.4 % Soil Moisture is 266.6 % PH level is 8.4 to IBM Watson T: 28 H: 3 S: 351 P: 6
def mycommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="motoron":
        print ("motor is on")
    if status=="motoroff":
        print ("motor is off")
    *print(cmd)
            T: 11
 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
deviceCli.connect()
 while True:
            Sug="Suggestion For Irrigation"
#Get Sensor Data from DHT11
avgt=0
                                                                                                                                                      Published Temperature = 29.8 C Humidity = 21.0 % Soil Moisture is 475.4 % PH level is 7.8 to IBM Watson
                                                                                                                                                                                                                                                                       O Search
                                                                                                                                                   i 0 0
```

IBM Watson Cloud:



Node-Red:



MIT App Inventor:

