

Sprint 1

Date	24 October 2022
TEAM ID	PNT2022TMID26938
Project Name	IoT Based smart crop Protection system for agriculture
Maximum mark	20 marks

Device credentials information

The screenshot displays the IBM Watson IoT Platform interface. The browser window shows the URL: `https://7znlxs.internetofthings.ibmcloud.com/dashboard/devices/drilldown/cropprotection:cropprotectionssystemid?returnTo=/devices/browse`. The page title is "Device Drilldown - cropprotectionssystemid". A left sidebar contains navigation options: "Device Credentials" (selected), "Connection Information", "Recent Events", "State", "Device Information", "Metadata", "Diagnostics", "Connection Logs", and "Device Actions". The main content area shows a table of device details:

Organization ID	7znlxs
Device Type	cropprotection
Device ID	cropprotectionssystemid
Authentication Method	use-token-auth
Authentication Token	ejrRfZRywhhZCz!mUR

Below the table, a warning message states: "Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token." A link "Find out how to add these credentials" is provided. At the bottom, a status bar indicates "0 Simulations running". The Windows taskbar at the bottom shows the time as 10:56 PM on 11/9/2022.

Python Code to Connect:

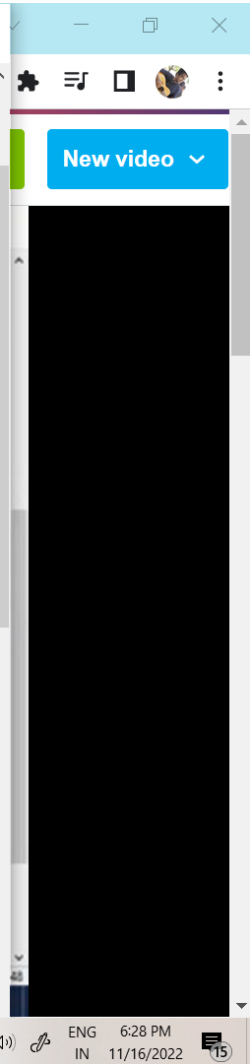
```
crop.py - C:\Users\HP\AppData\Local\Programs\Python\Python37\crop.py (3.7.0)
File Edit Format Run Options Window Help

#Provide your IBM Watson Device Credentials
organization = "7znlxs"
deviceType = "cropprotection"
deviceId = "cropprotectionssystemid"
authMethod = "token"
authToken = "ejrRfZRywhhZCz!mUR"

# Initialize GPIO
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="lighton":
        print ("led is on")
    elif status == "lightoff":
        print ("led is off")
    else :
        print ("please send proper command")

try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId}
    deviceCli = ibmiotf.device.Client(deviceOptions)
    #.....

except Exception as e:
    print("Caught exception connecting device: %s" % str(e))
```



Connect the Sensor in IBM Watson With Python Code:

[illegible]

