

SPRINT 2

Date	05 November 2022
Team ID	PNT2022TMID46022
Project Name	Project - Smart Farmer-IoT Enabled smart Farming Application

Sensor Connection



Device Details:

IBM Watson IoT Platform

Browse

Action

Device Types

Interactions

820419205501@smartinternz.com

ID: nmb64k

Add Device

Browse Devices

All Devices

Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using APIs.

Search by Device ID

Device Simulator

	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
>	pgp460_sensor	Disconnected	Ultrasonic	Device	Oct 25, 2022 1:19 PM	
>	sL_3018	Disconnected	smartfarmer	Device	Nov 5, 2022 10:19 PM	
>	smartfarmer_1	Connected	smartfarmer	Device	Nov 5, 2022 10:49 PM	

Items per page: 50

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1 Simulation running

IBM Watson IoT Platform

Back

820419205501@smartinternz.com

ID: nmb64k

Device Drilldown - smartfarmer_1

Connection Information

Recent Events

State

Device Information

Metadata

Diagnostics

Connection Logs

Device Actions

Date Added

Added By

Connection Status

Nov 5, 2022 10:49 PM

820419205501@smartinternz.com

Connected

Connection Time: Nov 5, 2022 10:50 PM

Client Address: 42.109.128.85 SecureToken

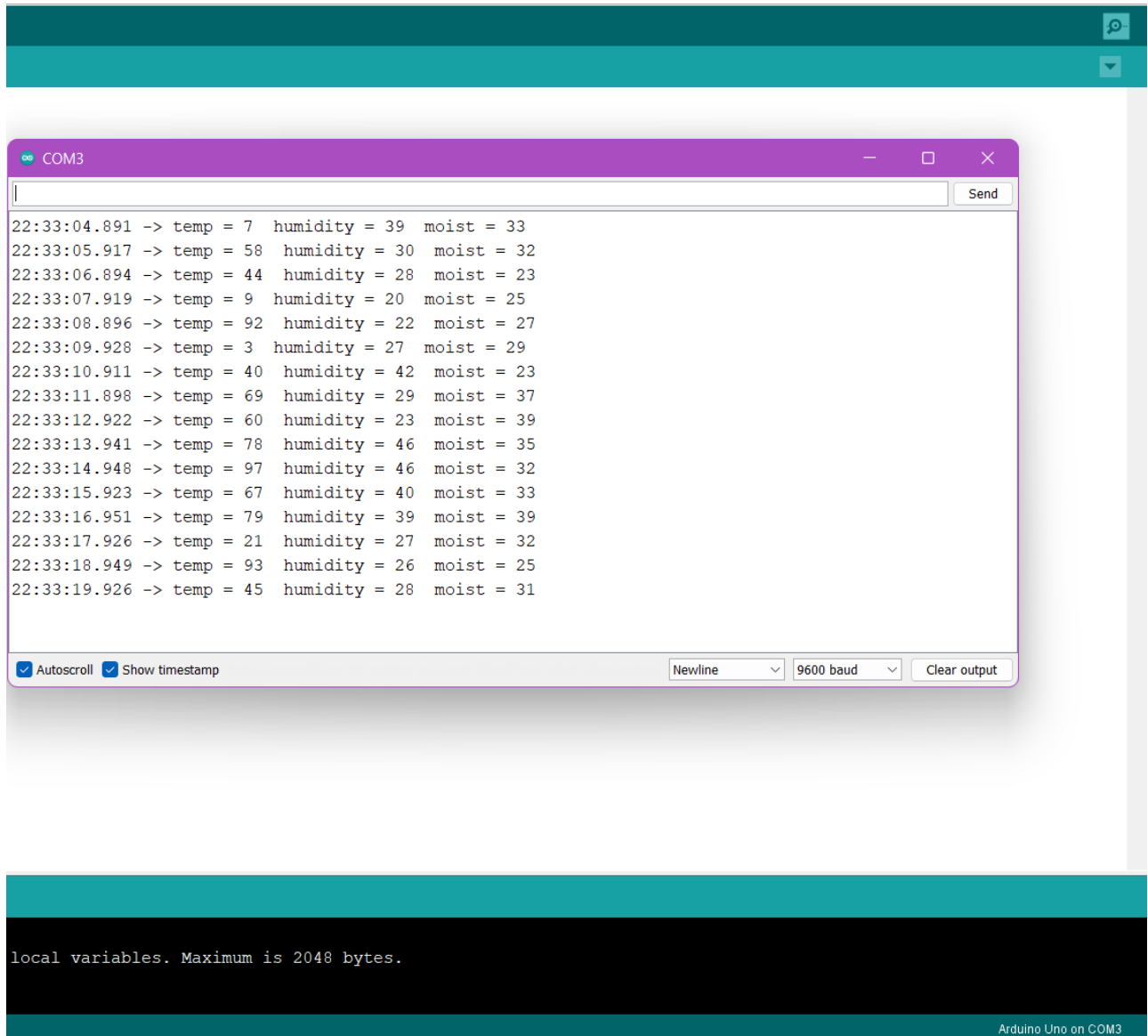
Recent Events

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
IoTSensor	{"temp":15,"hum":78,"moist":66}	json	a few seconds ago
IoTSensor	{"temp":41,"hum":90,"moist":16}	json	a few seconds ago
IoTSensor	{"temp":54,"hum":29,"moist":61}	json	a few seconds ago
IoTSensor	{"temp":46,"hum":38,"moist":77}	json	a few seconds ago

1 Simulation running

Output :



The screenshot shows the Arduino IDE interface with the serial monitor window open. The serial monitor is connected to COM3 and displays a series of sensor readings. The data is as follows:

Timestamp	temp	humidity	moist
22:33:04.891	7	39	33
22:33:05.917	58	30	32
22:33:06.894	44	28	23
22:33:07.919	9	20	25
22:33:08.896	92	22	27
22:33:09.928	3	27	29
22:33:10.911	40	42	23
22:33:11.898	69	29	37
22:33:12.922	60	23	39
22:33:13.941	78	46	35
22:33:14.948	97	46	32
22:33:15.923	67	40	33
22:33:16.951	79	39	39
22:33:17.926	21	27	32
22:33:18.949	93	26	25
22:33:19.926	45	28	31

Below the serial monitor window, a message states: "local variables. Maximum is 2048 bytes."

At the bottom right of the IDE window, it says "Arduino Uno on COM3".