Building an IoT Monitoring System > Building your first IoT Sensor Project

Troubleshooting Your First IoT Sensor Project

In the previous lesson, we have learned how to connect Light Dependent Resistor(LDR) to the Bolt. But not everyone gets this done in the first go. In this lesson, we will learn about the common issues people face while doing the project, and how to solve them.

If you got the project up and running in the first go, HURRAY!!, you can skip this lesson.

I have done the experiment correctly but the data does not update on the Cloud

- Check your hardware configurations.
- Check your cloud product code.
- Check if Both the Green Led and Blue Led of the Hardware are on and stable.
- Update the BoltEsp firmware, by following the documentation here.
- Restart the Bolt WiFi module.
- Now go to the device view and check the updated values from the device.

The data always shows 1thousand

- Look at the time of update. It may be that you are looking at old value, and not the new once.
- Check the connections of the resistor to a0 pin and GND.
- Try covering the LDR with your finger, and clicking on push data while your finger is on the LDR.
- Some students have received an LDR with internal resistance which is different from the standard. Try using the following combinations in the given sequence
- 3.3v - LDR - a0 Pin - 10k - gnd
- 3.3v - LDR - a0 Pin - 330 - gnd.

The data always shows 0

- Look at the time of update. It may be that you are looking at old value, and not the new ones.
- Check the connections of the LDR to a0 pin and 3.3v pin.
- Try focusing the torch from your phone onto the LDR
- Some students have received an LDR with internal resistance which is different from the standard. Try using the following combinations in the given sequence
- 3.3v - LDR - a0 Pin - 10k - gnd
- 3.3v - LDR - a0 Pin - 330 - gnd.

I have made the circuit connections correctly but data is not getting plotted/ NaN is shown.

- This means that there is an error in the code that you have written.
- Make sure that the variable name that you have used in the code matches exactly to the variable name provided while creating hardware configuration.
- If that's the case, copy the variable name from the hardware config page and paste it in the code.
- Save the code and click on deploy configuration.

