**Experiment # 03**

**LED Running Lights with Light and Sound sensor**

Procedure:

1. Merge experiment 01 and Experiment 02, removing the LCD from experiment 02.
2. Now, with sensors attached in the Arduino board. We can have a display output using our LED array.
3. Using the data from the sensors gathered in experiment 02, run a pattern of running lights for every level of loudness in sound sensor and brightness in light sensor.

Source Code:

Text

Description automatically generatedA picture containing table

Description automatically generatedA picture containing table

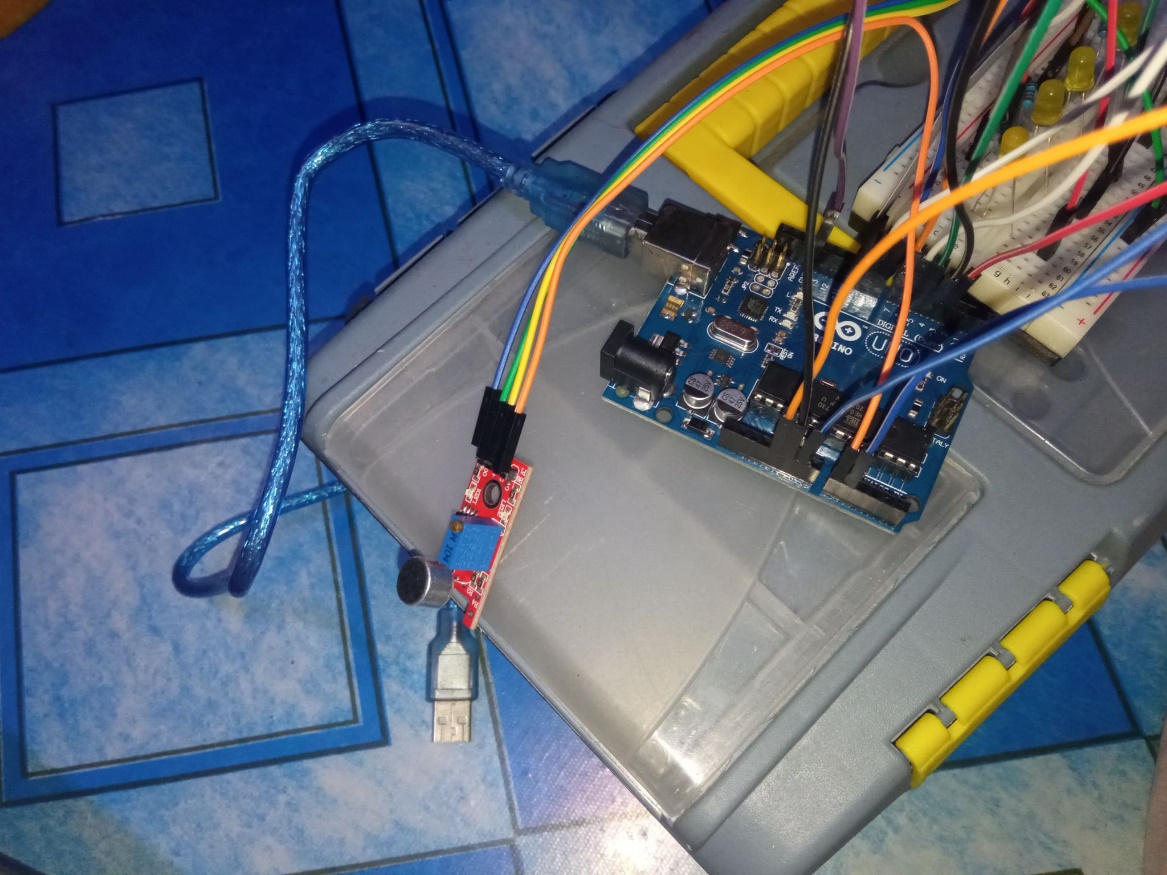
Description automatically generatedGraphical user interface, text

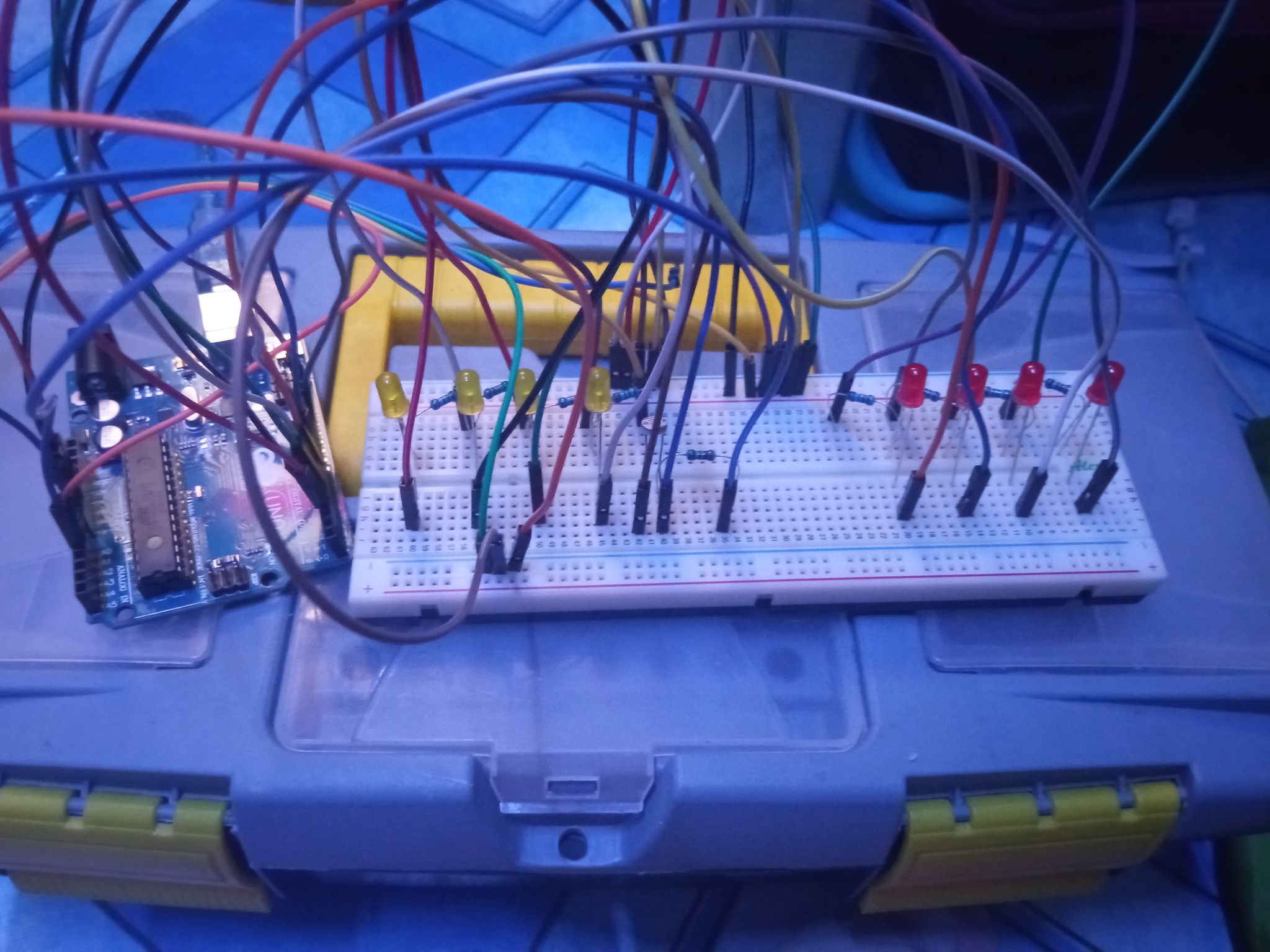
Description automatically generated

Circuit Diagram:

Diagram, schematic

Description automatically generated





A picture containing electronics

Description automatically generated

Observations:

1. It is hard to fit the circuit into the breadboard.
2. The source of the sound must be in front of the microphone.
3. The LDR part of the circuit gave excellent results.
4. All of the ground pins on the Arduino are used.