

# **Innovative Projects- Arduino Using Embedded 'C' (CSE1002)**

## **Phase –II Review Presentation**

### **Topic**

### **Clap Switch with Arduino using KY-038 Sensor**

**By**

**IPC-110**

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# Project Brief Summary

- OUTCOME
- This project will be able to help people who are naturally born dumb and physically handicapped to be able to use their home lighting systems without the help of others
- Overview

The sound sensor allows to detect when the sound has exceeded a set point . The sound or the sensitivity is detected via a microphone which is already inbuilt in the sensor . The sensitivity level can be adjusted via a potentiometer .

Relay is used in this circuit to control the current .It controls the high current using a low current signal .

When the sensitivity exceeds the set point ,the bulb connected will turn on ,the output is sent low .

Once again if the sound exceeds ,the bulb is turned off and the output is sent high.



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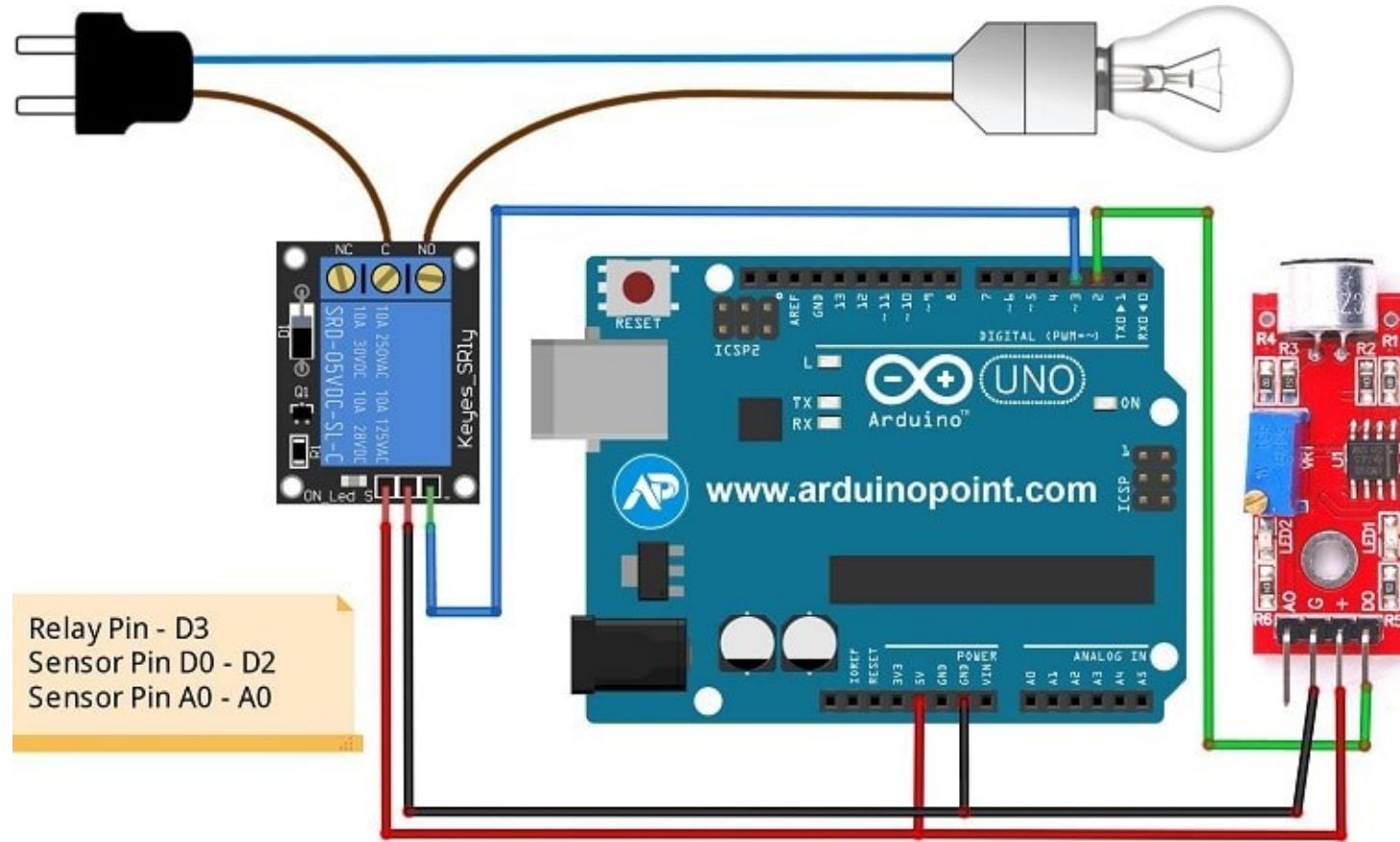
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# Challenges Faced in Project

- We faced issues in the coding part due to lack of experience which was compensated by research leading to completion of the project successfully.
- The Sensitivity levels have to be tweaked continuously in order for the microphone to not pick up any undesired sounds to trigger the potentiometer.

# Circuit/Block Diagram



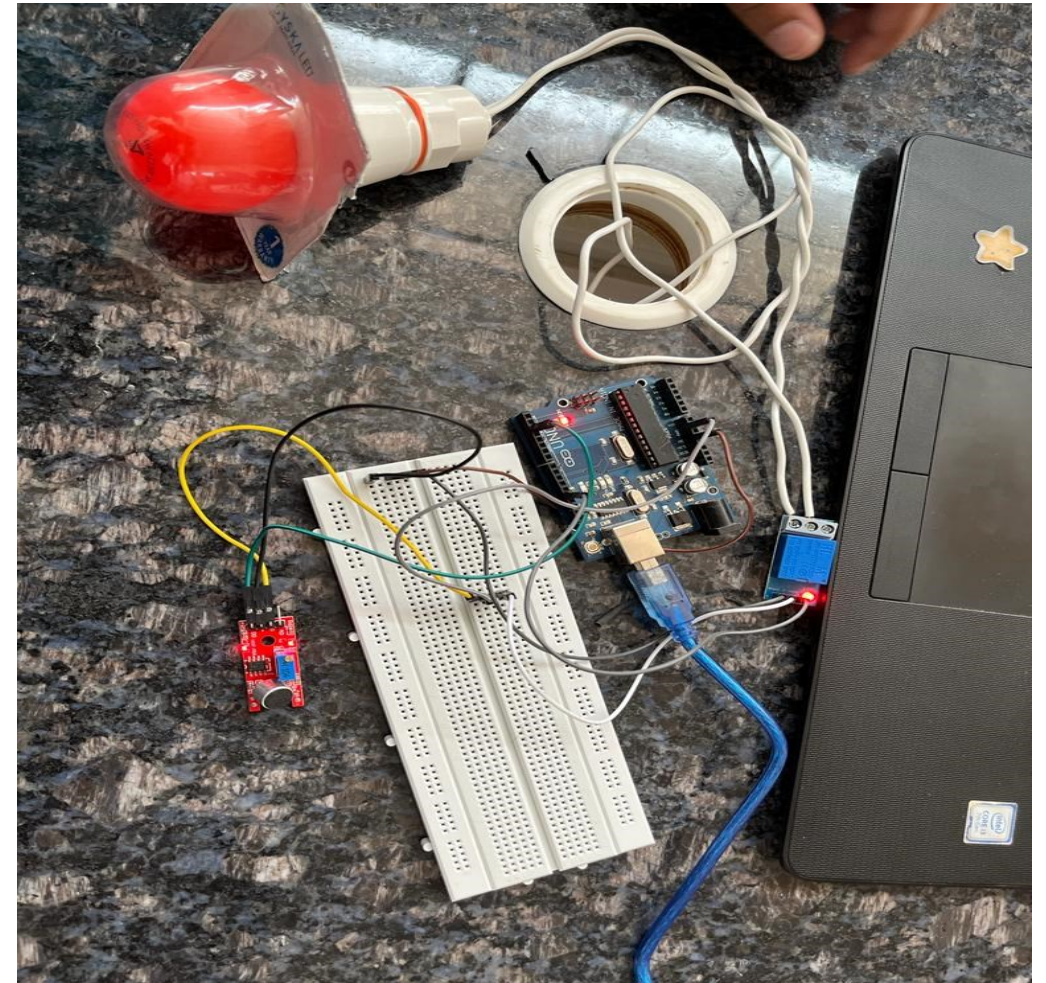
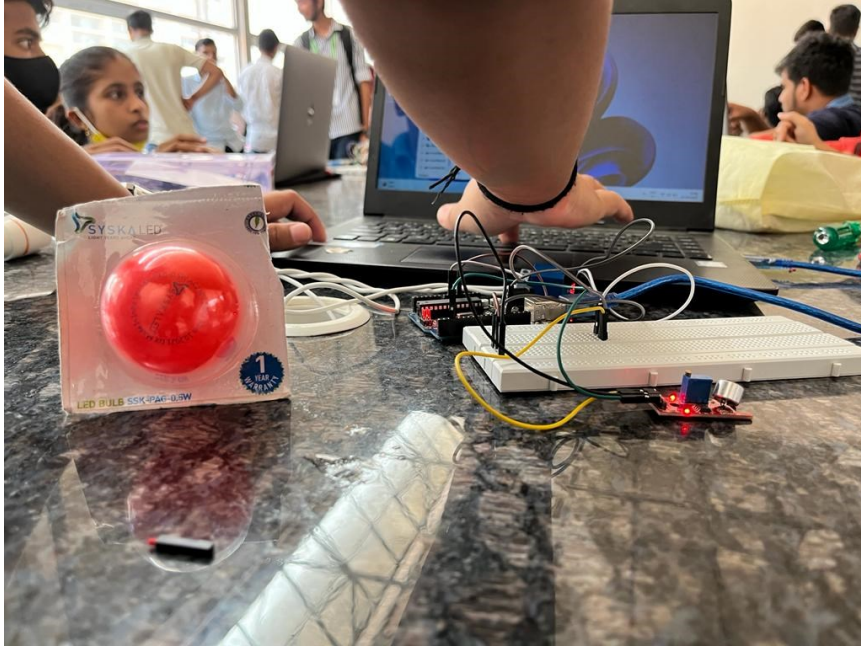
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# Obtained Results.



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# Project Timeline

Note: Write in the below table what u have achieved in each phase and what you will be achieving before phase 3

Phase 1	Phase 2	Phase 3
Selection of project and getting through review process	Assembly of the parts of the project along with the coding	Fixing the bugs or improving the project to its optimal state



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# Q&A



# Thank you !!



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