# INTRUSION DETECTION SYSTEM

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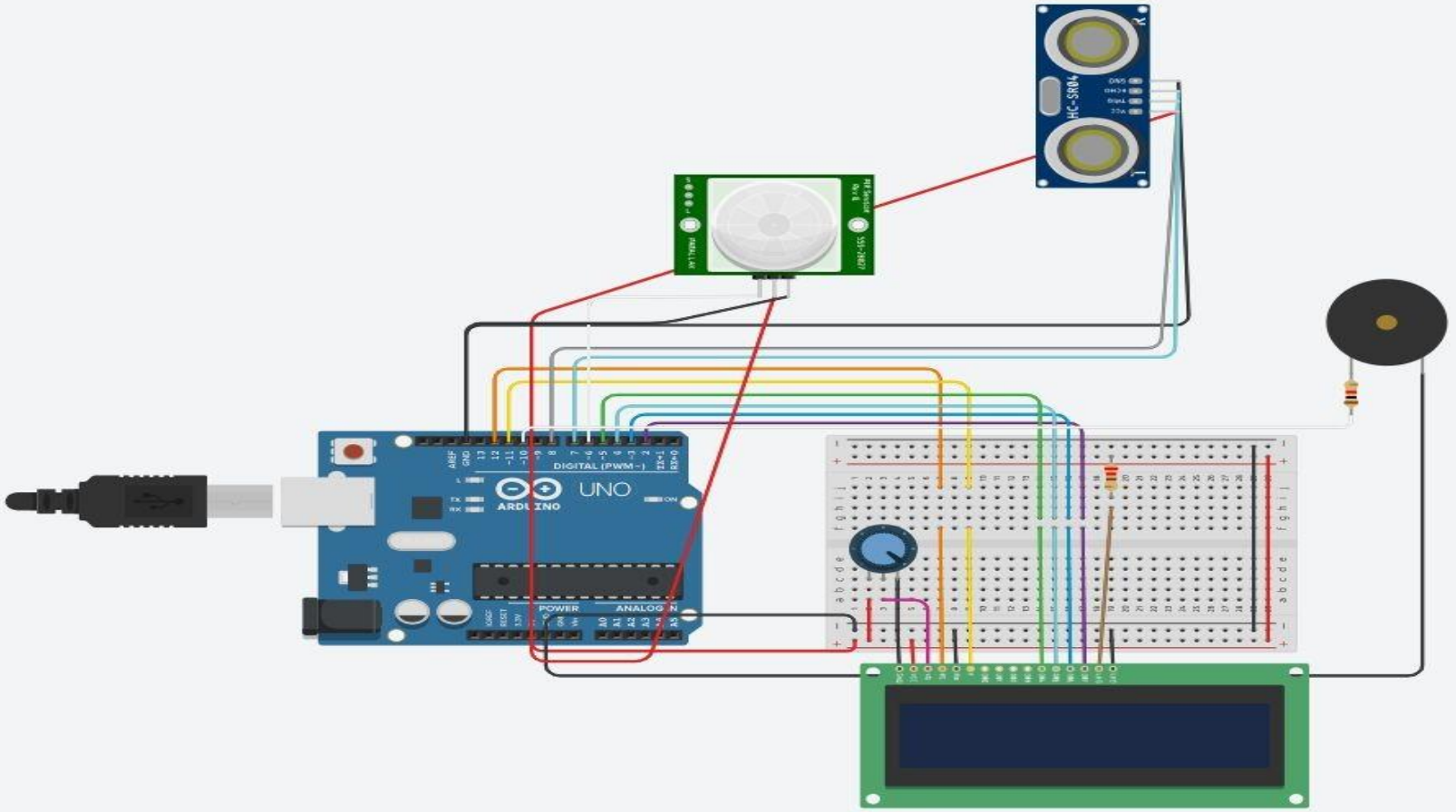
# PREFACE :

- Intrusion Detection System project is a basic motion sensing alarm that detects when someone enters our occupied region. When intruder is detected, it activates a siren. In this project, I am using PIR sensor module as an infrared sensor that generates electric charges when exposed in heat and sends the signals to Arduino. Arduino displays the status of LCD and start buzzing on Piezo if anything is moved or new object has been detected.

# COMPONENTS

1. Arduino UNO
2. PIR Sensor Module
3. Ultrasonic Distance Sensor
4. Piezo Buzzer
5. L.C.D
6. Breadboard
7. Some Jumper Wires
8. Potentiometer
9. Resistors

# CIRCUIT



# LITERATURE SURVEY

- This type of motion sensing alarm system can be easily employable for security purposes at banks, various offices and even for sensitive establishments such as for military. We can easily set up this system for household purposes.

# Working Principle

# ADVANTAGES AND DISADVANTAGES

- The given system is handy and portable, and thus can be easily carried from one place to another.
- The circuitry is not that complicated and thus can be easily troubleshooted.
- The given system sets off a powerful buzzer, and it is effective as any other alarm system available in the market.
- The given alarm system determines the presence of the intruder only, and does not determine how many persons are in there actually.
- The alarm activates only when the person cuts through the line of the PIR sensor.

# CONCLUSION

- Project implementation is on Intrusion Detection System. We have successfully completed it. I take this opportunity to express our sense of indebtedness and gratitude to all those people who helped us in completing this project and implementation.
- Iam immensely grateful to our esteemed project guide Anuj Deshpande. This project and implementation has contributed a lot to our knowledge that has proved to be a value addition for me.

**THANK YOU**