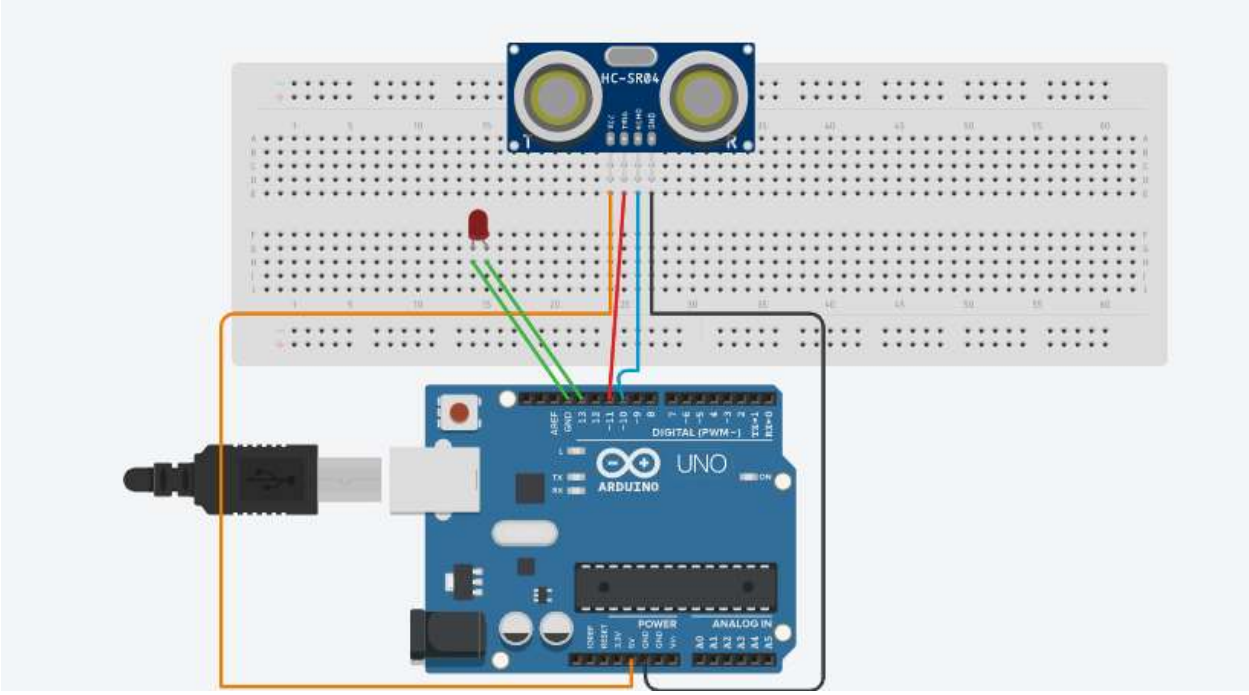
EXP 6-Design an obstacle detector and distance measuring device

CIRCUIT DIAGRAM



THEORY

CONCEPT USED:

1. Making Breadboard connections.
2. Coding of micro-controller in ARDUINO UNO
3. Concept of SONAR i.e. receiving of ultrasonic waves transmitted by the transmitter and then calculating the distance between the transmitter and the object from which the wave is bounced back.

LEARNING AND OBSERVATION:

In the experiment we learned about:

- Coding in Arduino UNO

- Using ultrasonic distance sensor
- Breadboard and its wiring

My observations were:

- Coding syntax is similar to C language.
- LED was switched ON when any obstacle came within 50cm of the sensor.

PROBLEMS AND TROUBLESHOOTING:

LEARNING OUTCOMES:

In this I learned the practical use of ultrasonic distance sensor and ARDUINO UNO for making different devices.