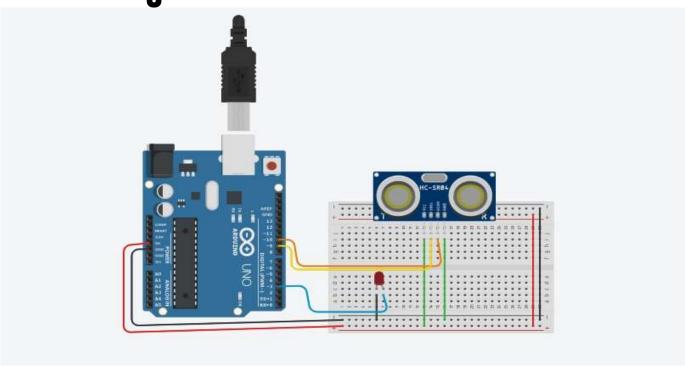
Obstacledetector and distance measuring device.



Concept Used :-

- 1) The obstacle detector works on the principle of transmitting and receiving the Ultrasonic signal, and calculating the distance by measuring the time between transmitting and receiving the signal.
- 2) VCC terminal of ultrasonic sensor is connected to the 5V supply to get voltage.
- 3) TRIG pin is connected to the 9 number digital pin and it produces ultrasonic wave.
- 4) ECHO pin is connected to the 10 number digital pin and it receives the reflected back wave.
- 5) If the distance is greater than 20cm then lED glows.

Learning and Observations_:-_

- 1. Connection between the arduino and Ultrasonic signal transmitter IC
- 2. Concept of calculation of distance on the basis of signal transmission and receiving.
- 3. Coding to be done for Arduino.
- 4. Basic understanding of Electrical Connections.
- 5. What's inside the Ultrasonic Signal Transmitter IC.

Problems and Troubleshooting:

- Making a functional was a bit time taking as it becomes a bit confusing on arranging the wires.
- Minors errors showed up in the code during the test run, which was trouble shooted by the correcting the above.

Precautions:-

- 1. Using multimeter to check whether the devices are damaged or not.
- 2. Correct sets Making correct connection
- 3. of instructions to be passed to successfully execute the experiment.
- 4. Port selection for Arduino.

Learning and Outcomes:

- 1)I have learnt to make circuits using breadboard, Arduino board and other equipment.
- 2)I have learnt to make other type of gadgets related to this concept.
- 3)I have learnt how we can use the Arduino board for doing various tasks.
- 4)I have learnt about the elements of Arduino board and its functions.