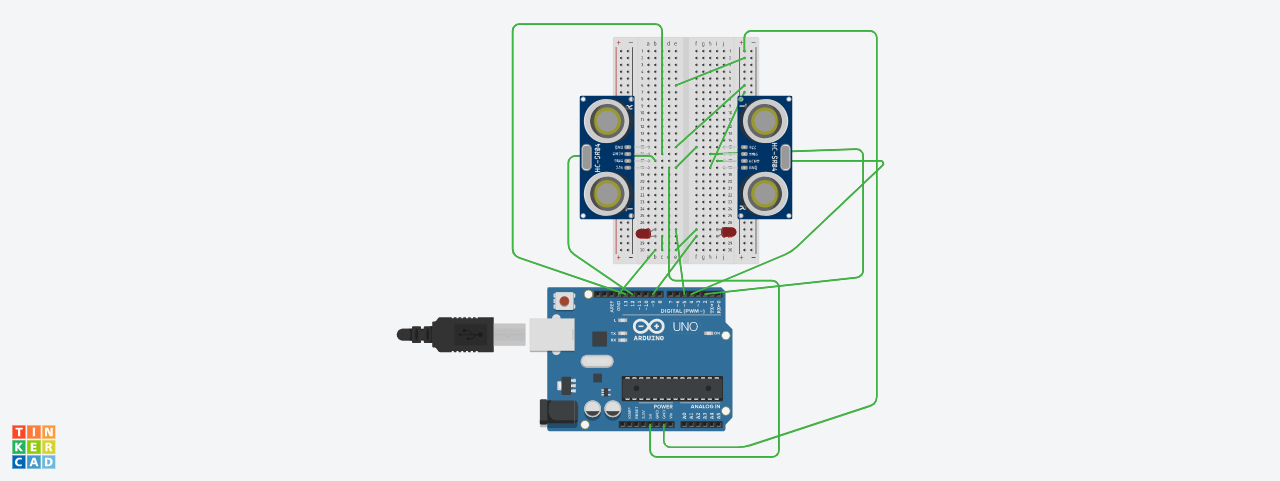
**Design a system for cars such that, whenever someone walks along its front side, Red LED starts blinking once every 10 ms and if someone walks along its back, Green LED starts blinking once every 20 ms.**



# Theory

Concepts used ----

There are Various concepts are used in this experiment and we will discuss them as below

1. Ultra Sonic Sensor.
2. Combination of Ultra sonic sensor with the led.
3. Code used to run Ultra sonic sensor with the help of Arduino UNO.
4. Dual behaviour of digital pins of Arduino UNO board

Learning Outcomes---

1. We learnt about Ultra Sonic Sensor.
2. We learnt about the pulseIn command of Arduino.
3. We learnt about the transmitter and receiver pins of the Ultra Sonic Sensor.
4. We learnt that ultrasonic sensor can be used as a function in car parking.

5 . Safe driving can be practiced

**PROBLEMS AND TROUBLESHOOTING :**

We mainly face problems in connecting the breadboard connections and the connections of ldr.

And the code of the Arduino should be given properly.

**PRECAUTIONS :**

One should be very consciouswhile making the connections of breadboard and ldr.

And also the code of Arduino should be checked twice.

The use of extra connecting wires should be decreased.

***Observations***

*1 .* We **give delay time in microseconds.**

**2.If the distance of the object is less than 20 than led should glow with noticeable effect.**