BIRZEIT UNIVERSITY

Department of Electrical and Computer Engineering
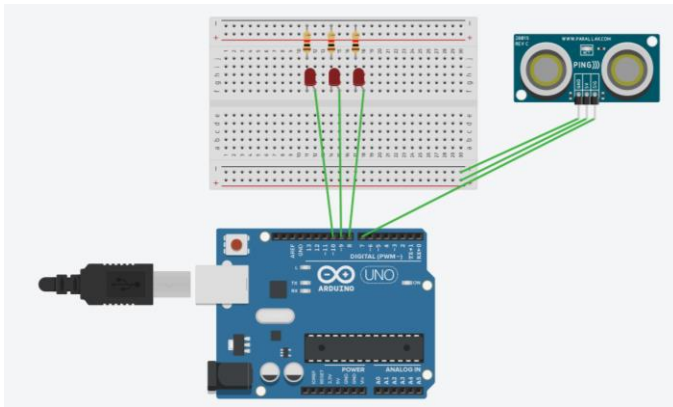
ENCS4380
INTERFACING TECHNIQUES

Task #1
Arduino basics and ultrasonic sensor

Through this task, you will be exposed to direct interaction with the Arduino board and the basics of its work and operation through designing a system for measuring and representing distance using ultrasonic sensors and LEDs.

The desired system should use an ultrasonic sensor to measure the distance between our system and an object and represent it on 3 LEDs

The distance should be represented using LEDs , such that if the distance is less than 10 cm all LEDS should light , if it is between 10 to 20 cm then 2 LEDs lights , if it is 20 to 30 cm only 1 LED lights.

Use tinkercad to simulate the circuit before implementation.