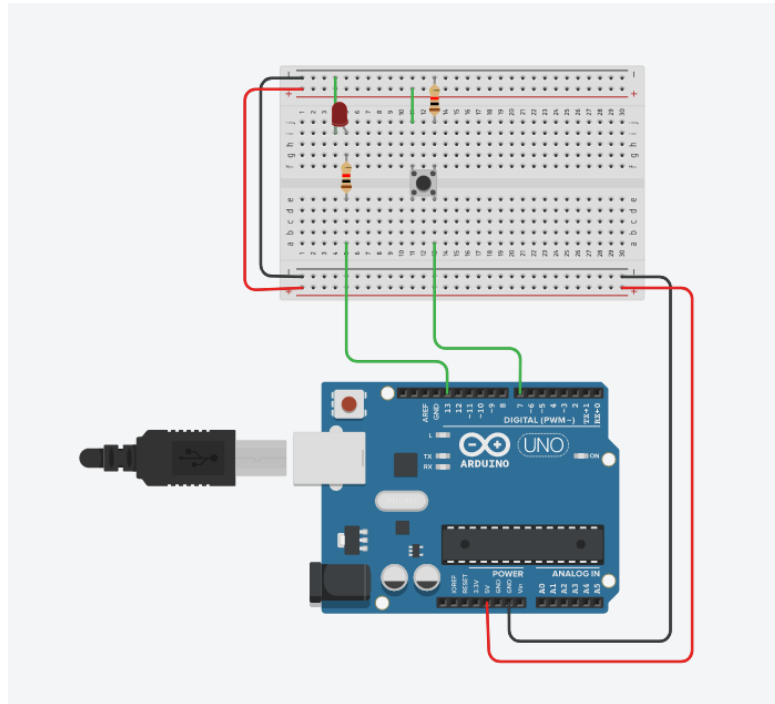# Assignment-2

1) Push Button Counter.
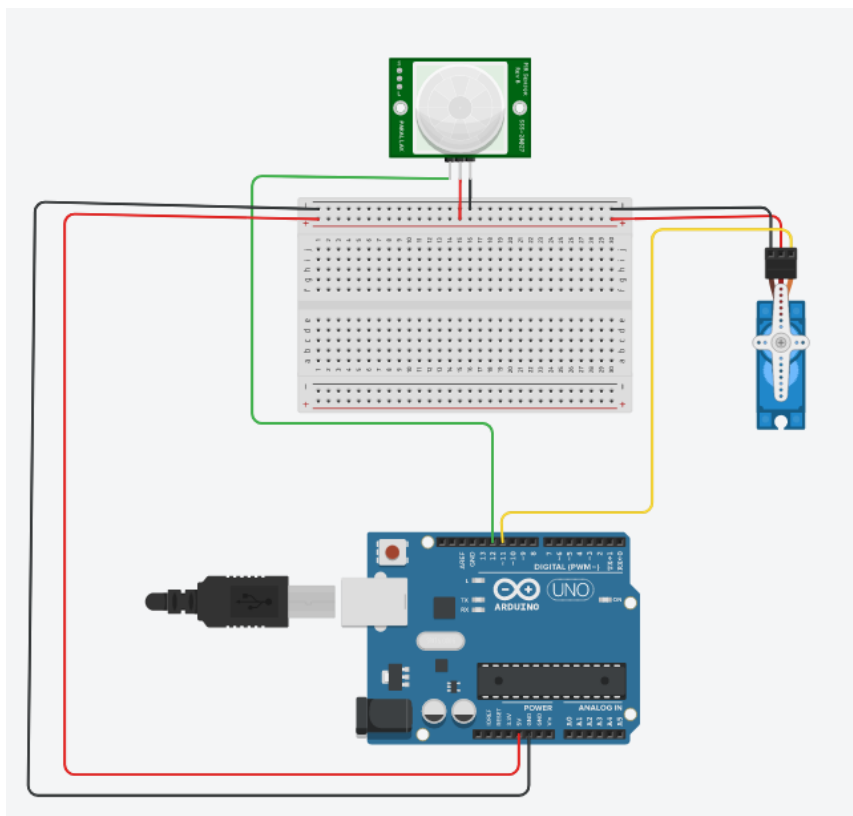

You are going to count how many times you push the button.
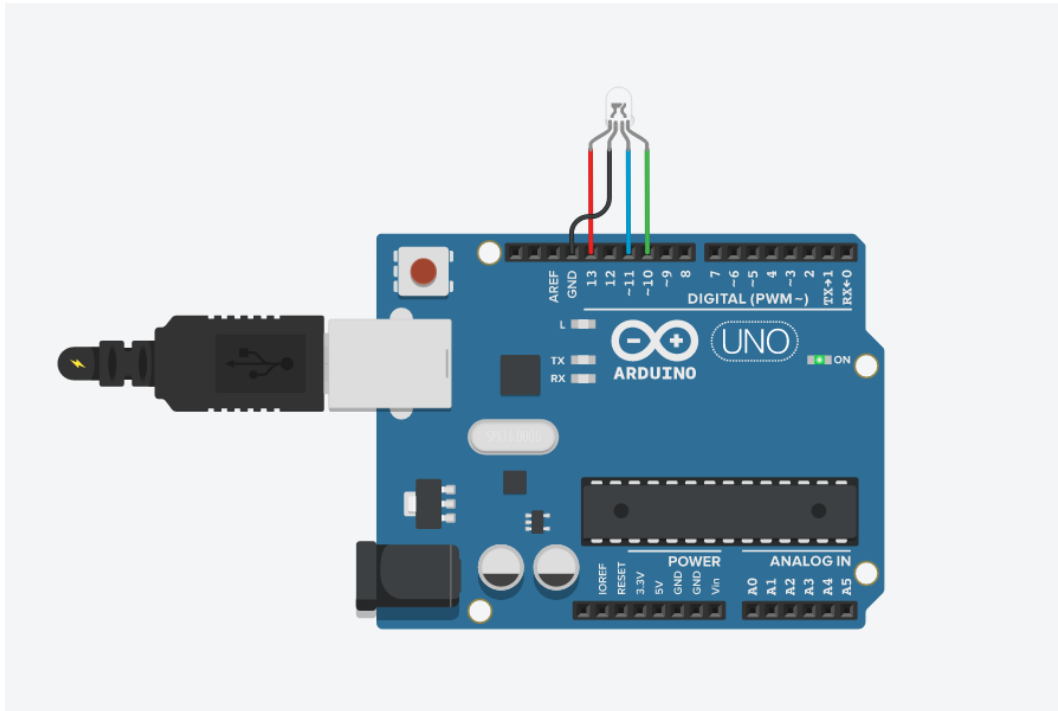*Each push has to be counted only one.*
When the push counter reach to 5, you are going to make LED ON and OFF.

2) Automatic Trash Detection

In this part, you are going to make a automatic trash box. If there is a trash which means that PIR sensor is going produce HIGH output, micro servo motor is going to rotate back and forth to open and close the box cover.
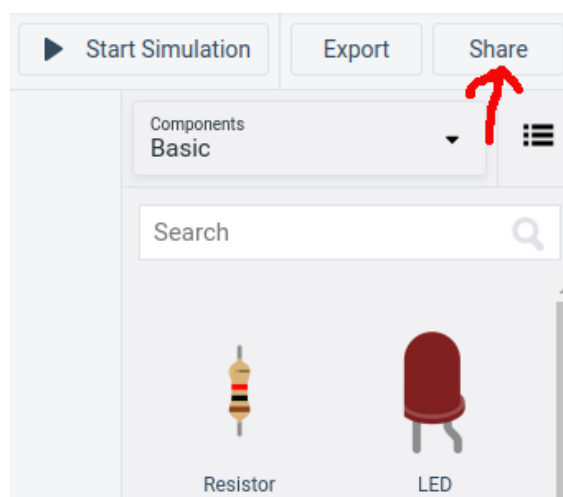
3) Hot and Cold Game

A random will be generated as a first step. You'll write your inputs using Serial Monitor. If the distance between generated number and the number you guessed is getting smaller, your algorithm is going to make **red led** on and off, if the distance is getting bigger algorithm is going to make **blue led** on and off. If you guess is right, it's going make **green led** on and off, and it'll be the end of game.
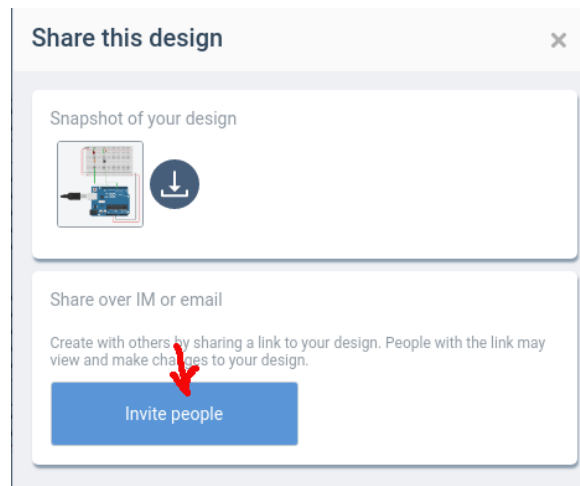
How to Share Project Link

You are going to create three different projects. For each project, you should follow instructions below:
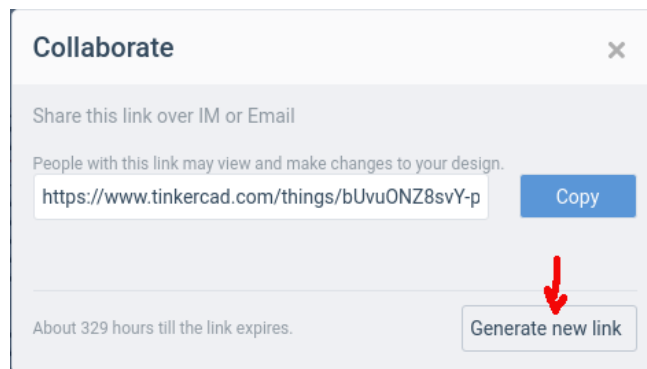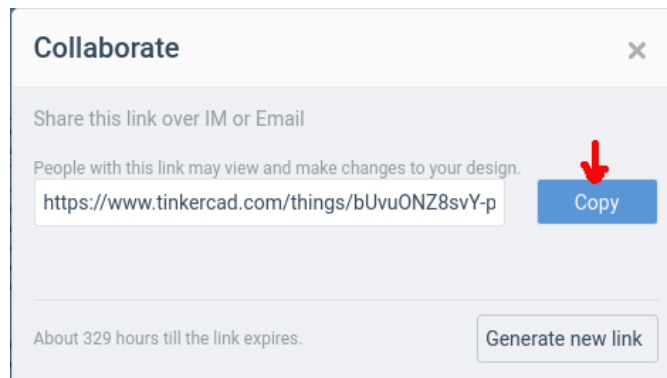
Step-1:

Step-2:

Step-3:

Step-4:

Submission: You are required to submit your project links to CMS in txt file format named as yourstudentnumber_A2.txt (e.g. If your student number is 201812345678, the file name must be 201812345678_A2.txt). Sharing your project links is enough for this assignment.

If you want to ask any question about assignment, you can write me using Microsoft Teams or e-mail.