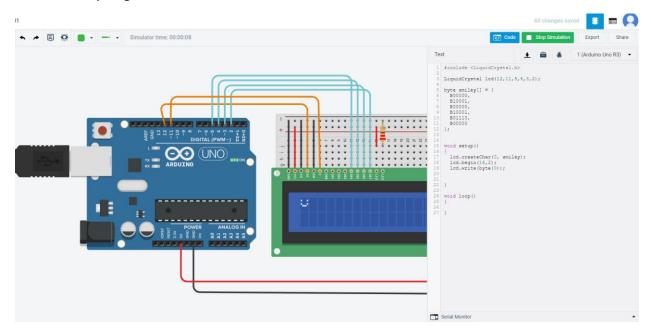
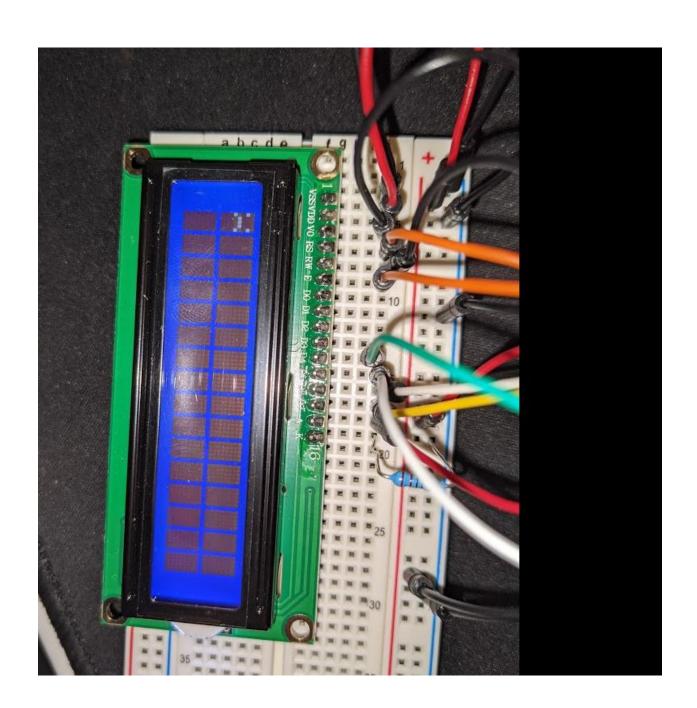
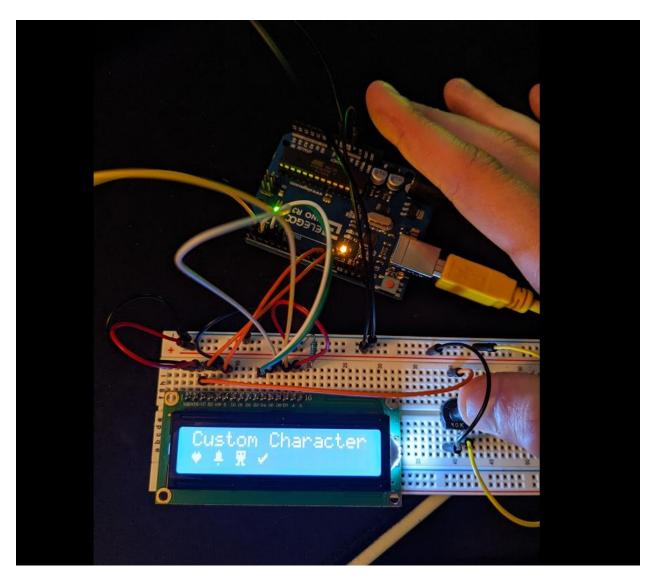
Exercise 1 rory lange



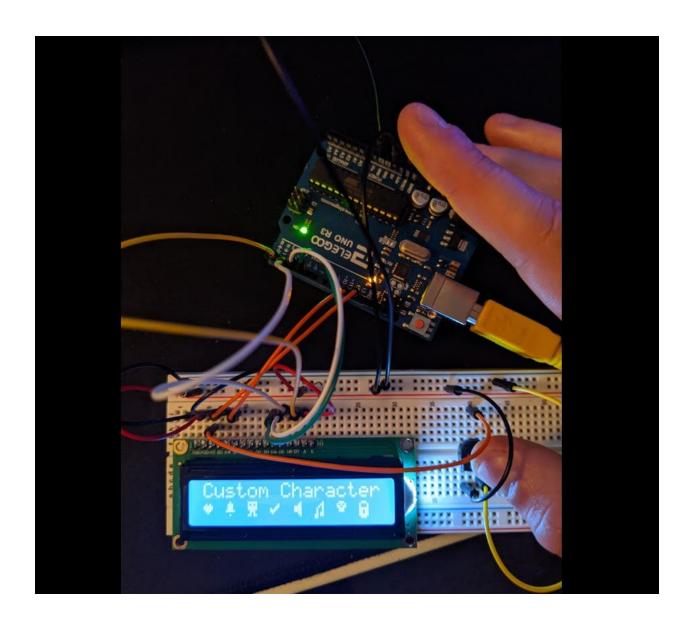
Exercise 2



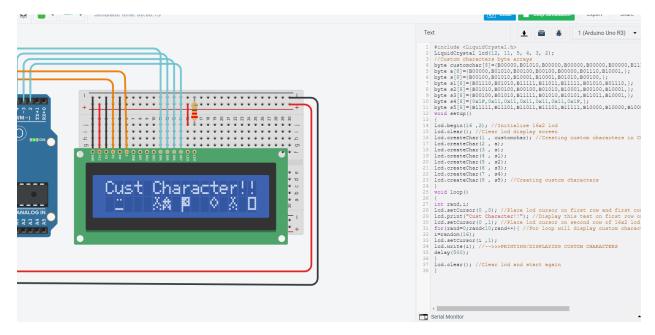
```
#include <LiquidCrystal.h>
     LiquidCrystal lcd(12,11,5,4,3,2);
     byte happy[] = {
       B00000,
       B10001,
       B00000,
       B10001,
10
       B01110,
1
       B00000
12
     };
L3
     byte saddy[] = {
L4
L5
       B00000,
L6
       B10001,
١7
       B00000,
18
       B01110,
١9
       B10001,
20
       B00000,
21
       B00000
22
     };
23
24
     void setup()
25
26
27
       lcd.createChar(0, happy);
28
       lcd.createChar(1, saddy);
29
       lcd.begin(16,2);
30
       lcd.write(byte(0));
31
32
33
34
     void loop()
36
37
       for (int i = 0; i < 2; i++) {
         lcd.setCursor(0, 0);
38
39
         lcd.write(i);
         delay(500);
```



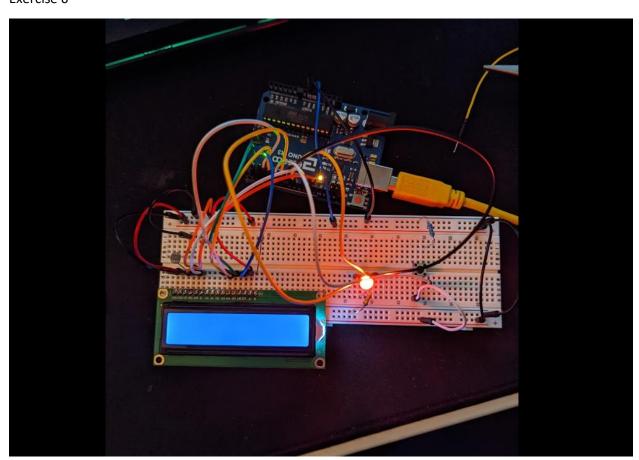
Exercise 4

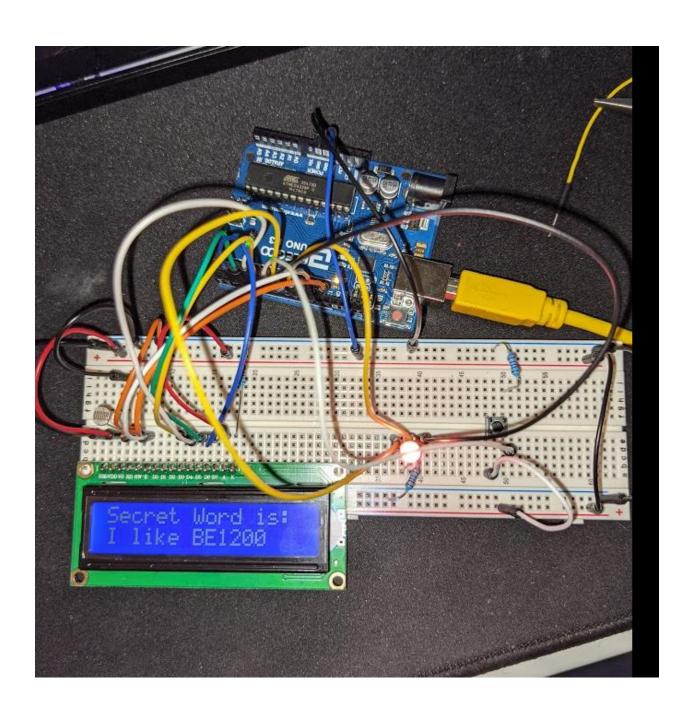


Exercise 5



Exercise 6





```
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 #include <LiquidCrystal.h>
 LiquidCrystal lcd(12,11, 5, 4, 3, 2);
 int buttonPin = 6; // the number of the Start Game pushbutton pin
int RPin = 7; // select the pin for the red LED
int GPin = 8; // select the pin for the green LED
int BPin = 9; // select the pin for the blue LED
 int buttonStatus = 0;
 void setup() {
pinMode(buttonPin, INPUT);
pinMode(RPin, OUTPUT);
pinMode(GPin, OUTPUT);
pinMode(BPin, OUTPUT);
lcd.begin(16, 2);}
 void loop() {
buttonStatus = digitalRead(buttonPin);
 if (buttonStatus == HIGH) {
lcd.clear();
 delay(500);
 for (int i=0; i <= 5; i++) {
lcd.setCursor(8,0);
lcd.print(i);
 digitalWrite(BPin, HIGH);
 digitalWrite(RPin, LOW);
delay(500);
digitalWrite(RPin, HIGH);
digitalWrite(GPin, LOW);
delay(500);
 digitalWrite(GPin, HIGH);
digitalWrite(BPin, LOW);
delay(500);}} else {
digitalWrite(RPin, HIGH);
```