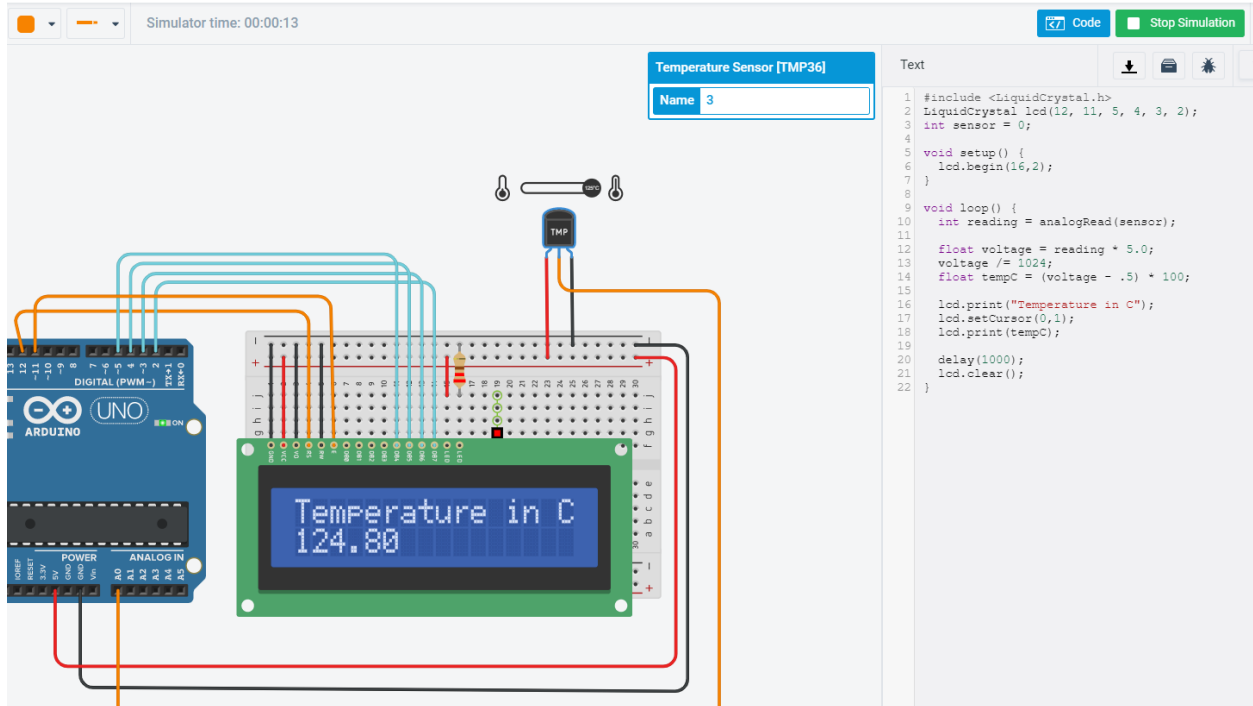
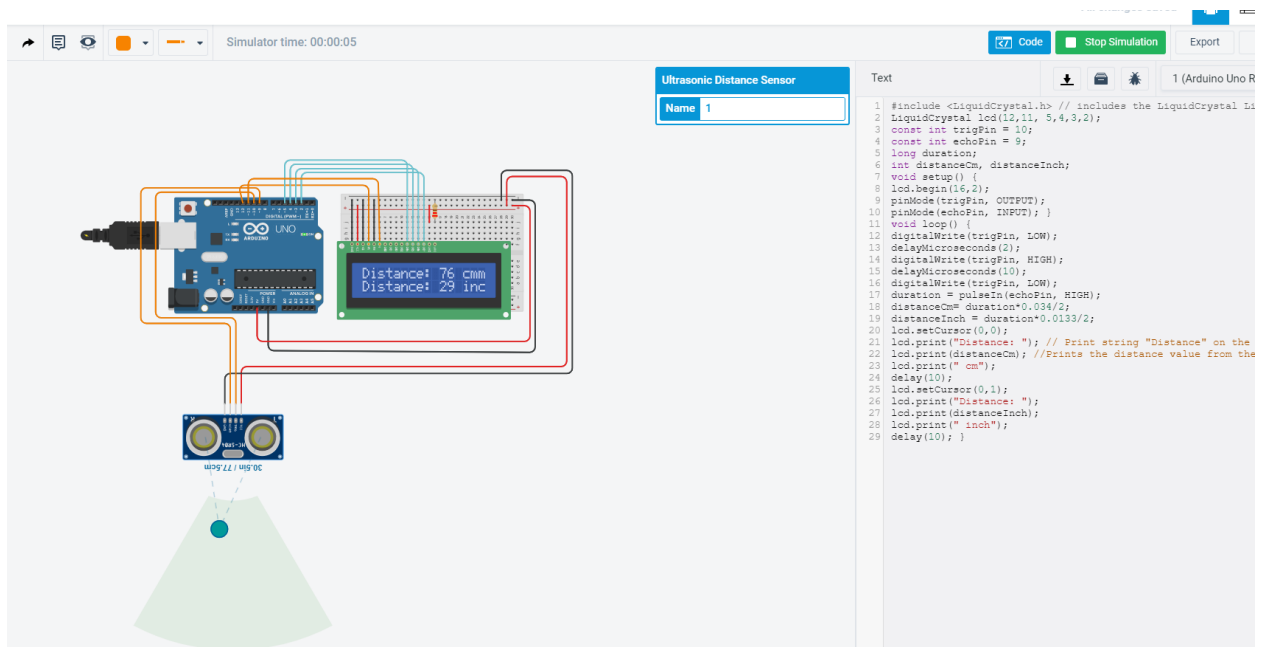


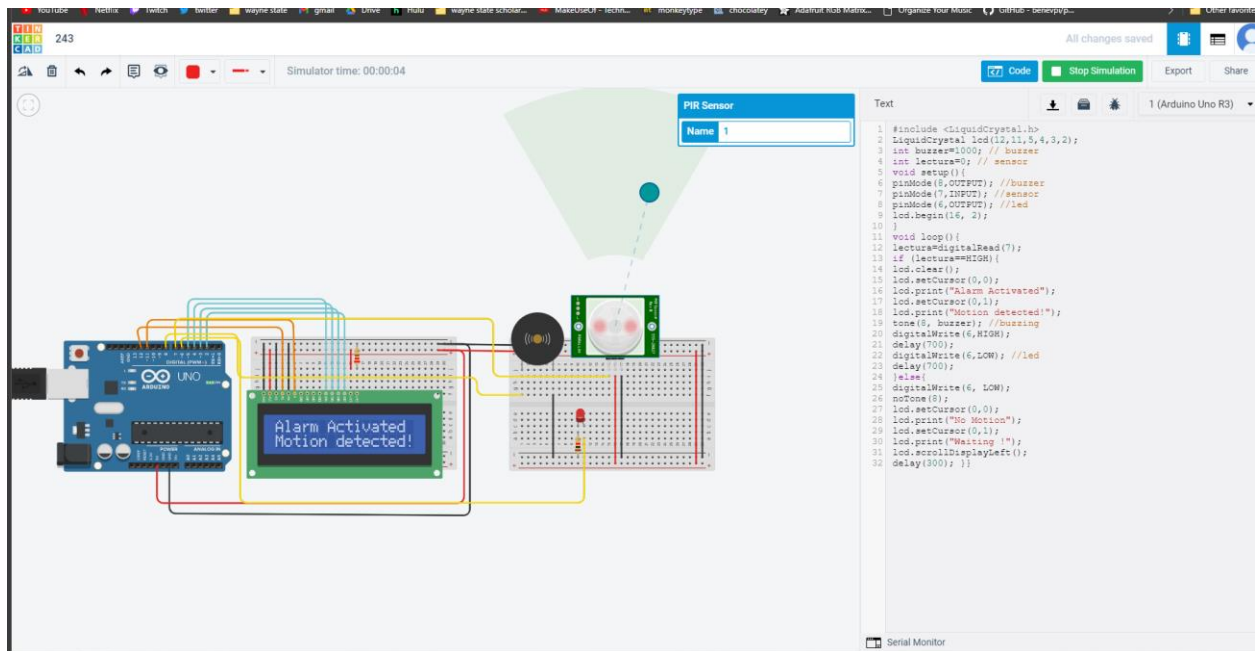
## Exercise 1 rory lange



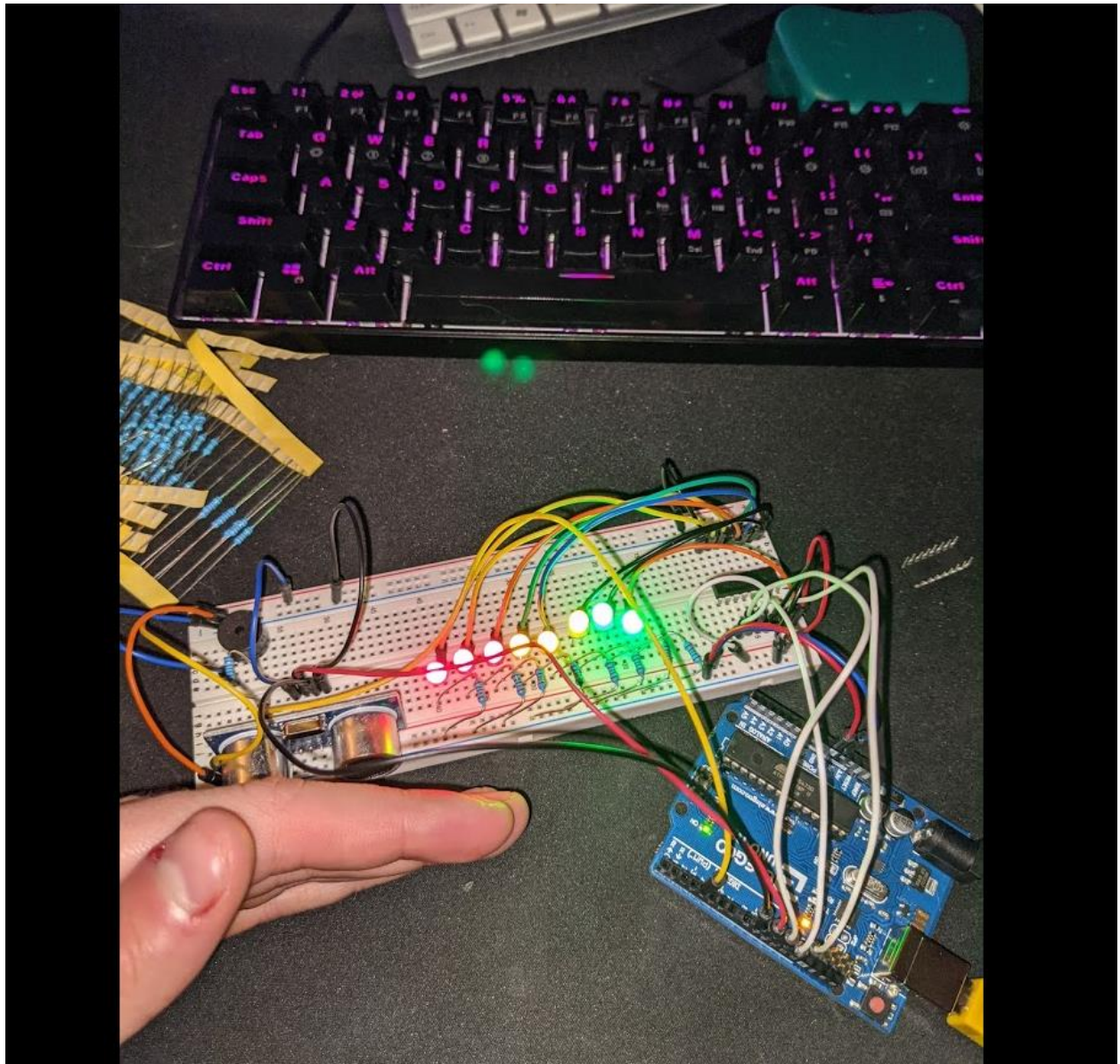
## Exercise 2



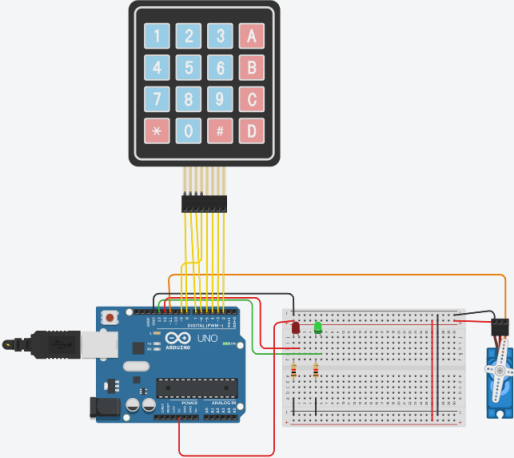
## Exercise 3



## Exercise 4



Exercise 5



Text

1 (Arduir

```
16 byte rowPins[ROWS] = { 8, 7, 6, 9 };
17 byte colPins[COLS] = { 5, 4, 3, 2 };
18 Keypad keypad = Keypad( makeKeymap(keys), rowPins, c
19 int RedpinLock = 12; // RED LED PIN FOR STATUS. RED=
20 int GreenpinUnlock = 13; //GREEN LED PIN FOR STATUS.
21 void setup()
22 {
23   pinMode(RedpinLock, OUTPUT);
24   pinMode(GreenpinUnlock, OUTPUT);
25   ServoMotor.attach(11); //FROM HERE YOU CAN CHANGE SE
26   //PIN
27   LockedPosition(true);
28 }
29 void loop()
30 {
31   char key = keypad.getKey();
32   if (key == '*' || key == '#')
33   {
34     position = 0;
35     LockedPosition(true);
36   }
37   if (key == password[position])
38   {
39     position ++;
40   }
41   if (position == 3)
42   {
43     LockedPosition(false);
44   }
45   delay(100);
46 }
47 void LockedPosition(int locked)
48 {
49   if (locked)
50   {
51     digitalWrite(RedpinLock, HIGH);
52     digitalWrite(GreenpinUnlock, LOW);
53     ServoMotor.write(11);
54   }
55   else
56   {
57     digitalWrite(RedpinLock, LOW);
58     digitalWrite(GreenpinUnlock, HIGH);
59     ServoMotor.write(360);
60   }
61 }
```