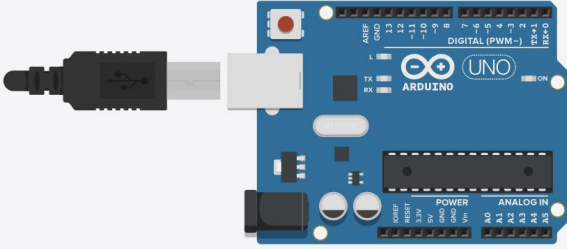


Exercise 1 rory lange



```
1 int sum = 0;
2
3 void setup()
4 {
5   Serial.begin(9600);
6 }
7
8 void loop()
9 {
10  while (sum < 220) {
11    sum = sum + 10;
12    Serial.println(sum);
13  }
14 }
```

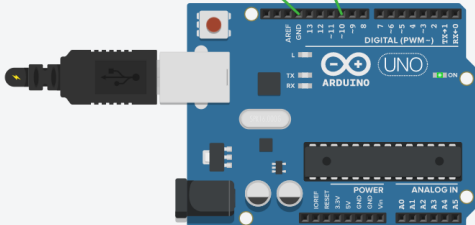
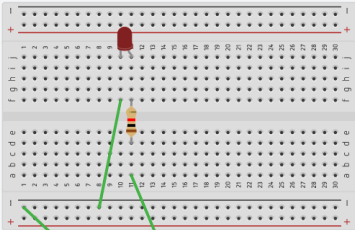
Serial Monitor

10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220

Exercise 2

Simulator time: 00:00:24

Code Stop Simulation Export



```
1 int led = 10;
2 int delaytime = 1000;
3
4 void setup()
5 {
6   pinMode(led, OUTPUT);
7 }
8
9
10 void loop()
11 {
12   while (delaytime > 0) {
13     digitalWrite(led, HIGH);
14     delay(delaytime);
15     digitalWrite(led, LOW);
16     delay(delaytime);
17     delaytime = delaytime - 100;
18   }
19 }
20 }
```

Text

1 (Arduino U

Serial Monitor

Exercise 3

Simulator time: 00:00:49

Code

Stop Simulation

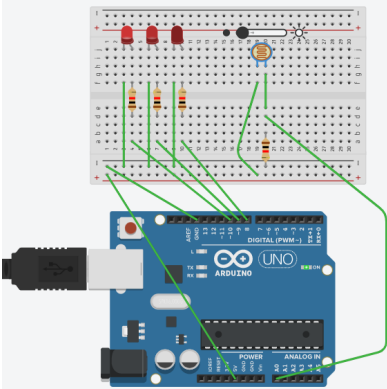
Export

Share

Photoresistor

Name

4



Text

```
1 int light = 0;
2 int led1 = 8;
3 int led2 = 9;
4 int led3 = 10;
5 int sensorpin = 0;
6 int thresh = 200;
7
8
9 void setup()
10 {
11   pinMode(led1, OUTPUT);
12   pinMode(led2, OUTPUT);
13   pinMode(led3, OUTPUT);
14   Serial.begin(9600);
15 }
16
17 void loop()
18 {
19   light = analogRead(sensorpin);
20   Serial.println(light);
21
22   while (light < thresh) {
23     for (int n = 0; n <= 10; n++) {
24       digitalWrite(n, HIGH);
25       delay(300);
26       digitalWrite(n, LOW);
27     }
28     light = analogRead(sensorpin);
29   }
30 }
31
```

Serial Monitor

224
224
224
224
224
193

Exercise 4

A	B	Y
0	0	0
0	1	1
1	0	0
1	1	1

A	B	Y
0	0	1
0	1	0
1	0	1
1	1	0

A	B	Y
0	0	1
0	1	0
1	0	1
1	1	0