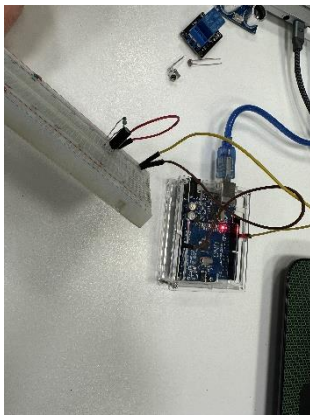


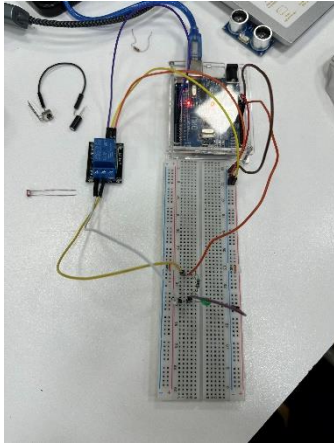
Capteur de contact

```
1  int inPin = 12;
2  int value = 0;
3
4  void setup() {
5    pinMode(LED_BUILTIN, OUTPUT);
6    pinMode(LED_BUILTIN, INPUT);
7  }
8
9  void loop() {
10   value = digitalRead(inPin);
11   digitalWrite(LED_BUILTIN, value);
12 }
```



Contact via relais

```
1  int relay = 7;
2
3  void setup() {
4    pinMode(relay, OUTPUT);
5  }
6
7  void loop() {
8    digitalWrite(relay, HIGH);
9    delay(1000);
10   digitalWrite(relay, LOW);
11   delay(1000);
12 }
```

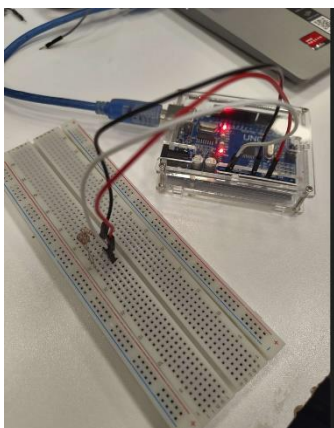


Capteur de luminosité

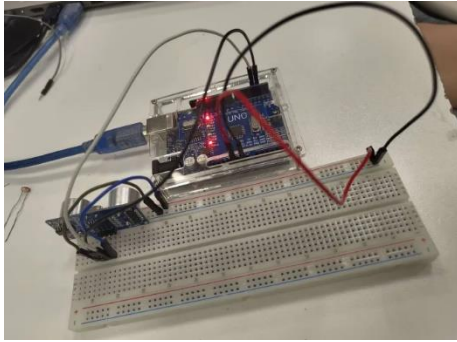
```

1  int PHOTORESISTOR = A0;
2
3  void setup() {
4    Serial.begin(9600);
5    pinMode(PHOTORESISTOR, INPUT);
6  }
7
8  void loop() {
9    int analogValue = analogRead(PHOTORESISTOR);
10
11    Serial.print("Analog reading: ");
12    Serial.print(analogValue);
13
14    delay(500);
15  }

```

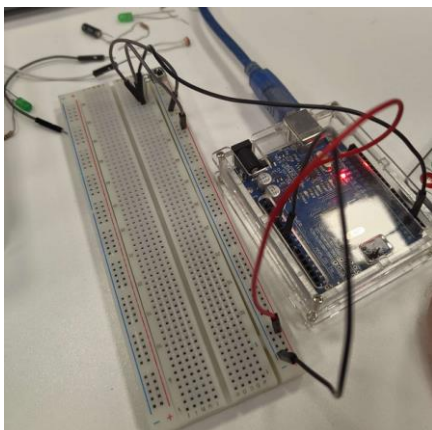


Capteur de distance



```
1 int trigPin = 11;
2 int echoPin = 10;
3
4 float duration_us, distance_cm;
5
6 void setup() {
7   Serial.begin (9600);
8   pinMode(trigPin, OUTPUT);
9   pinMode(echoPin, INPUT);
10 }
11
12 void loop() {
13   digitalWrite(trigPin, HIGH);
14   delayMicroseconds(10);
15   digitalWrite(trigPin, LOW);
16
17   duration_us = pulseIn(echoPin, HIGH);
18
19   distance_cm = 0.017 * duration_us;
20
21   Serial.print("distance: ");
22   Serial.print(distance_cm);
23   Serial.println(" cm");
24
25   delay(500);
26 }
```

Capteur infrarouge





```
1 #include <IRremote.h>
2 #include <IRremoteInt.h>
3
4 int RECV_PIN = 7;          // The digital pin that the signal pin of the sensor is connected to
5 IRrecv receiver(RECV_PIN); // Create a new receiver object that would decode signals to key codes
6 decode_results results;    // A variable that would be used by receiver to put the key code into
7
8 void setup() {
9     Serial.begin(9600);    // Setup serial port to send key codes to computer
10    receiver.enableIRIn();  // Enable receiver so that it would start processing infrared signals
11 }
12
13 void loop() {
14     if(receiver.decode(&results)) { // Decode the button code and put it in "results" variable
15         Serial.println(results.value, HEX); // Print the code as a hexadecimal value
16         receiver.resume(); // Continue listening for new signals
17     }
18 }
```