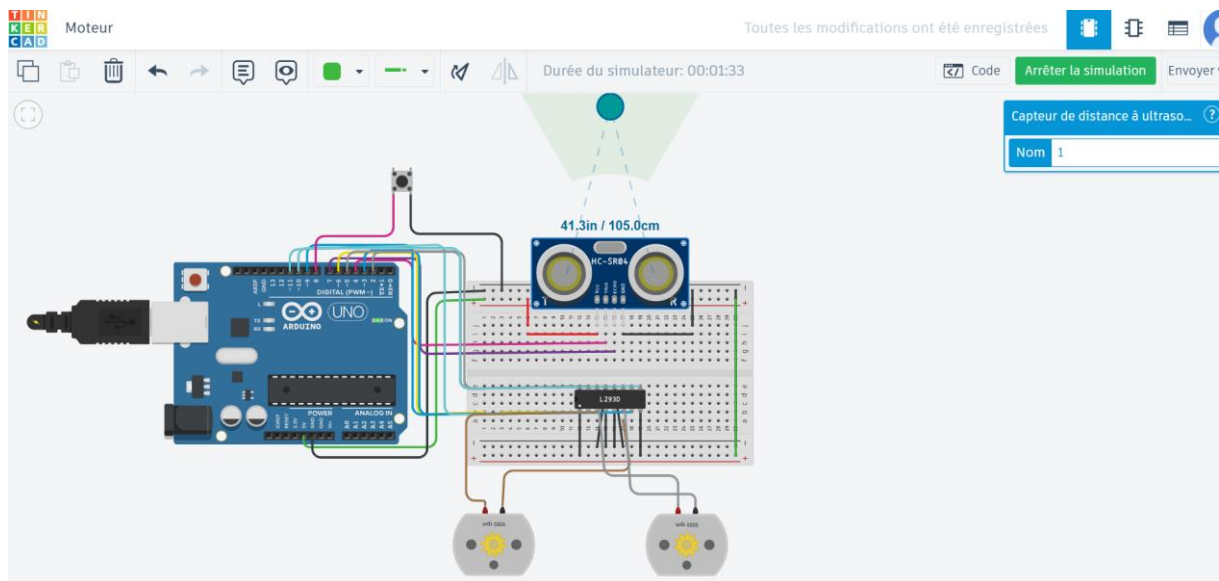
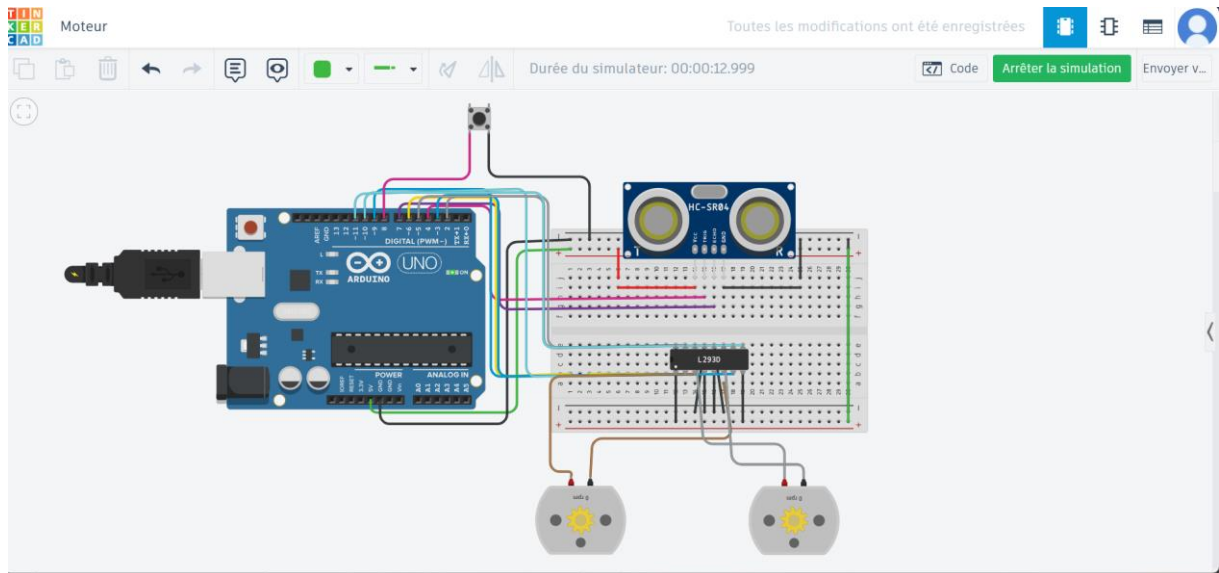
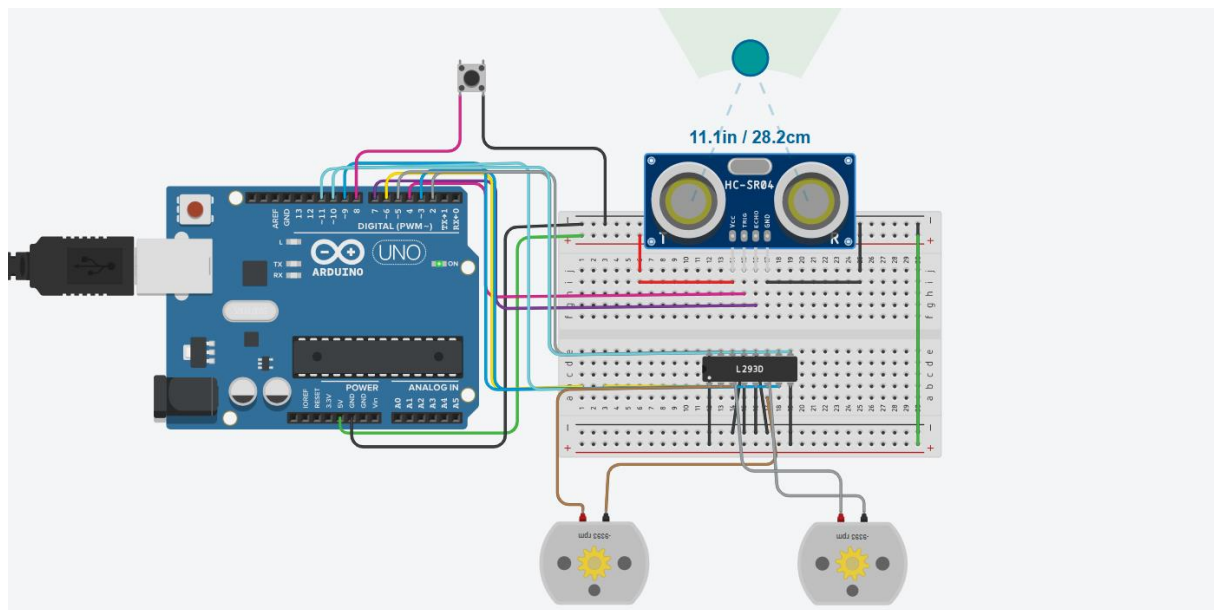


JAONINA Sissie Thephanies





```

1  int trigPin = 4;
2  int echoPin = 7;
3  long time;
4  float distanceCm, distanceInch;
5  const int bouton = 8;
6  int btnstate;
7  bool robotActive = false;
8
9  void setup()
10 {
11   pinMode(trigPin, OUTPUT);
12   pinMode(echoPin, INPUT);
13   pinMode(11, OUTPUT);
14   pinMode(9, OUTPUT);
15   pinMode(3, OUTPUT);
16   pinMode(bouton, INPUT_PULLUP);
17   Serial.begin(9600);
18 }
19
20 void loop()
21 {
22   digitalWrite(trigPin, LOW);
23   delayMicroseconds(2);
24
25   // Transmettre le son pour microsecond
26   digitalWrite(trigPin, HIGH);
27   delayMicroseconds(10);
28   digitalWrite(trigPin, LOW);
29

```



Moniteur série

```
29
30 // Calcul distance
31 time = pulseIn(echoPin, HIGH);
32 Serial.println("time");
33 Serial.println(time);
34 distanceCm = time * 0.034 / 2;
35 distanceInch = time * 0.0133 / 2;
36
37 // Affichage la valeur finale
38 Serial.println("Distance :");
39 Serial.println(distanceCm);
40 Serial.println("Cm");
41 Serial.println(distanceInch);
42 Serial.println("Inch");
43
44 // Lecture de l'état du bouton
45
46 btnstate = digitalRead(bouton);
47 Serial.print("Bouton état : ");
48 Serial.println(btnstate); // Ajoutez cette ligne pour le diagnostic
49
50 btnstate = digitalRead(bouton);
51
52 if (btnstate == LOW) {
53     delay(100); // Anti-rebond
54     if( btnstate == LOW) { // Vérifiez à nouveau
55         robotActive = !robotActive; // Inverser l'état du robot
56         delay(200); // Anti-rebond supplémentaire
57     }
```

```
57     }  
58 }  
59  
60  
61  
62 if (robotActive) {  
63     if (distanceCm < 30) {  
64         // Moteur 1  
65         digitalWrite(9, HIGH);  
66         digitalWrite(3, LOW);  
67         analogWrite(11, 255);  
68         delay(2000);  
69         analogWrite(11, 0);  
70         delay(100);  
71  
72         // Moteur 2  
73         digitalWrite(2, HIGH);  
74         digitalWrite(5, LOW);  
75         analogWrite(10, 255);  
76         delay(2000);  
77         analogWrite(10, 0);  
78         delay(100);  
79  
80         // Changer de direction  
81         digitalWrite(2, HIGH);  
82         digitalWrite(5, LOW);  
83         analogWrite(10, 255);  
84         delay(100);  
85     }
```



Moniteur série

```
72 // Moteur 2
73 digitalWrite(2, HIGH);
74 digitalWrite(5, LOW);
75 analogWrite(10, 255);
76 delay(2000);
77 analogWrite(10, 0);
78 delay(100);
79
80 // Changer de direction
81 digitalWrite(2, HIGH);
82 digitalWrite(5, LOW);
83 analogWrite(10, 255);
84 delay(100);
85
86 } else {
87 // Moteur 1
88 digitalWrite(3, HIGH);
89 digitalWrite(9, LOW);
90 analogWrite(11, 255);
91
92 // Moteur 2cap
93 digitalWrite(5, HIGH);
94 digitalWrite(2, LOW);
95 analogWrite(10, 255);
96 delay(1000);
97 }
98 }
99 }
100
```



Moniteur série