

الاسم : سعود سعد اللحاني

تسليم مهمة **servo motor** وهو مشغل إما دوار او خطي يسمح بالتحكم الدقيق في كلا من الموضع سواء كان زاوي او خطي .

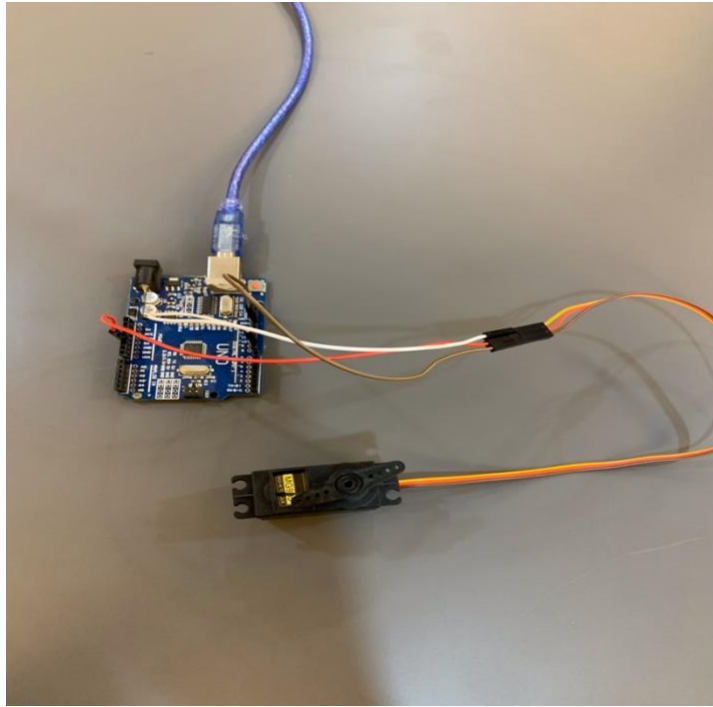


Figure : 1(المشروع)

## الكود المستخدم

```
1  /* Sweep
2  by BARRAGAN <http://barraganstudio.com>
3  This example code is in the public domain.
4
5  modified 8 Nov 2013
6  by Scott Fitzgerald
7  http://www.arduino.cc/en/Tutorial/Sweep
8  */
9
10 #include <Servo.h>
11
12 Servo myservo;  // create servo object to control a servo
13 // twelve servo objects can be created on most boards
14
15 int pos = 0;    // variable to store the servo position
16
17 void setup() {
18   myservo.attach(9);  // attaches the servo on pin 9 to the servo object
19 }
20
21 void loop() {
22   for (pos = 0; pos <= 180; pos += 1) { // goes from 0 degrees to 180 degrees
23     // in steps of 1 degree
24     myservo.write(pos);              // tell servo to go to position in variable 'pos'
25     delay(15);                       // waits 15ms for the servo to reach the position
26   }
27   for (pos = 180; pos >= 0; pos -= 1) { // goes from 180 degrees to 0 degrees
28     myservo.write(pos);              // tell servo to go to position in variable 'pos'
29     delay(15);                       // waits 15ms for the servo to reach the position
30   }
31 }
```