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Task : 1 (Servo motor)

In this task, I made a circuit on **tinkercad**: a servo motor circuit consisting of an arduino uno and a servo motor .

Connecting wires :

I have been connect the signal to pin 13 on the arduino, the power to 5V, and the ground to GND .

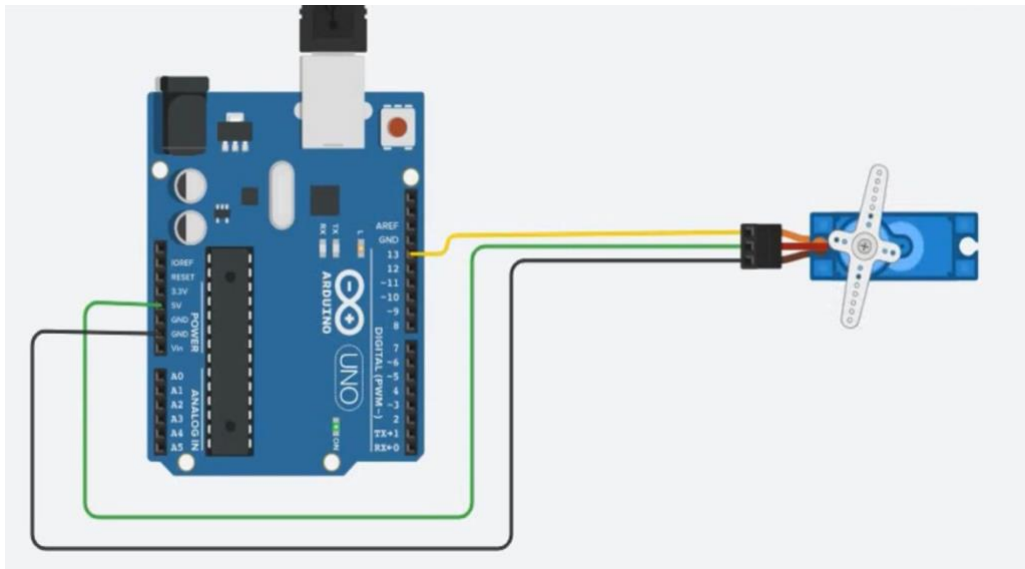


Figure : 1 (The circuit)

```
1 #include<Servo.h>
2 Servo servol;
3 int pos = 0;
4 void setup()
5 {
6   servol.attach(13); // because i have connected signal pin with 13
7 }
8
9 void loop()
10 {
11   // rotate from 0 to 180 degree
12   for(pos=0;pos<=180;pos++)
13   {
14     servol.write(pos);
15     delay(100);
16   }
17   delay(1000);
18   for(pos=180;pos>=0;pos--)
19   {
20     servol.write(pos);
21     delay(100);
22   }
23   delay(1000);
24 }
25 //now notice the speed of rotation
26
27
28
29
30
```

Figure : 2 (The code used)