Copy of Sensor and actuator Arduino   All changes saved
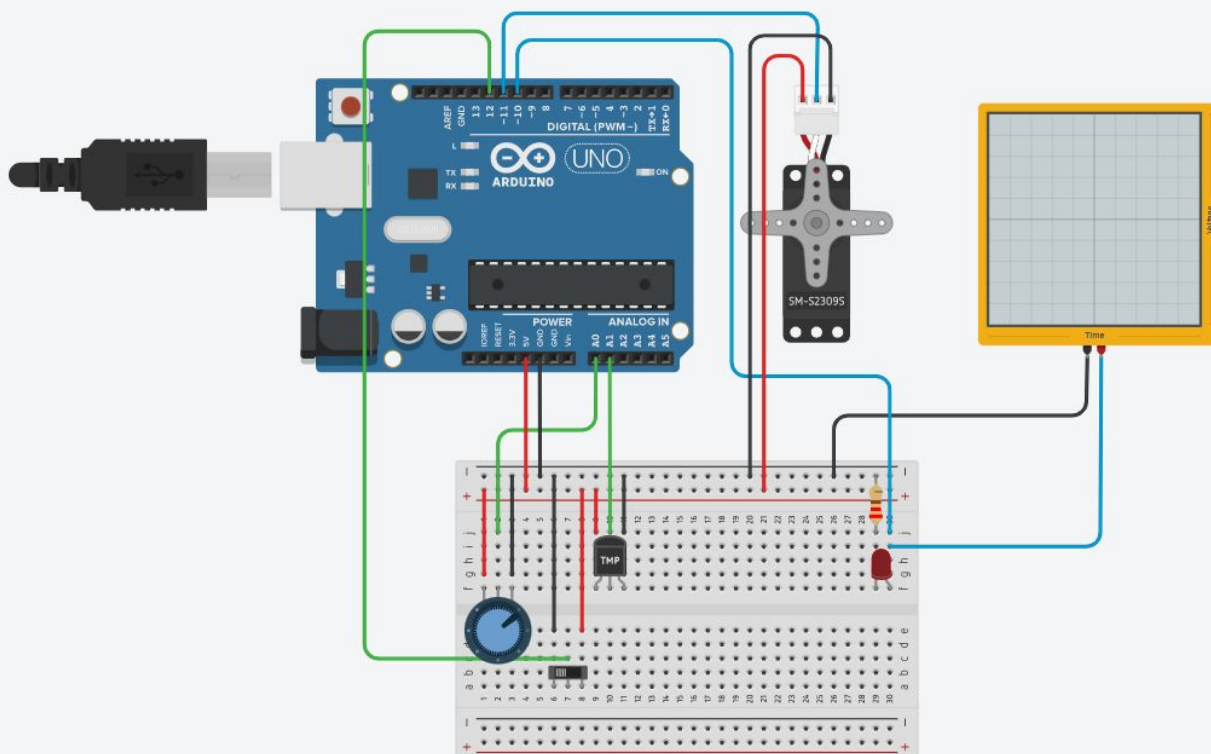
Code ▶ Start Simulation   Send

Text ▼   ↓   🗄   A ▼   1 (Arduino Uno R3)

```arduino
1   #include <Servo.h>
2
3   int reading = 0;
4   int duty;
5   int angle;
6
7   Servo servo_11;
8
9   void setup()
10  {
11    pinMode(12, INPUT);
12    pinMode(A0, INPUT);
13    pinMode(10, OUTPUT);
14    servo_11.attach(11);
15    pinMode(A1, INPUT);
16  }
17
18  void loop()
19  {
20    if (digitalRead(12) == 0)
21    { reading = analogRead(A0);
22      duty= map(reading,0,1023,0,255);
23      analogWrite(10, duty);
24      angle= map(reading,0,1023,0,180);
25      servo_11.write(angle);
26    }
27    else
28    { reading = analogRead(A1);
29      duty = map(reading,20,359,0,255);
30      analogWrite(10,duty);
31      angle= map(reading,20,359,0,180);
32      servo_11.write(angle);
33    }
34    delay(100);
35  }
```

Serial Monitor

```
#include <Servo.h>


Int reading = 0;

Int duty;

Int angle;


Servo servo_11;


Void setup()

{

  pinMode(12, INPUT);

  pinMode(A0, INPUT);

  pinMode(10, OUTPUT);

  servo_11.attach(11);

  pinMode(A1, INPUT);

}


Void loop()

{

  If (digitalRead(12) == 0)

  { reading = analogRead(A0);

    Duty= map(reading,0,1023,0,255);
```

```
        analogWrite(10, duty);

        angle= map(reading,0,1023,0,180);

        servo_11.write(angle);

   }

   Else

   { reading = analogRead(A1);

        Duty = map(reading,20,359,0,255);

        analogWrite(10,duty);

        angle= map(reading,20,359,0,180);

        servo_11.write(angle);

   }

   Delay(100);

}
```