

Copy of Sensor and actuator Arduino

All changes saved



Code

Start Simulation

Send

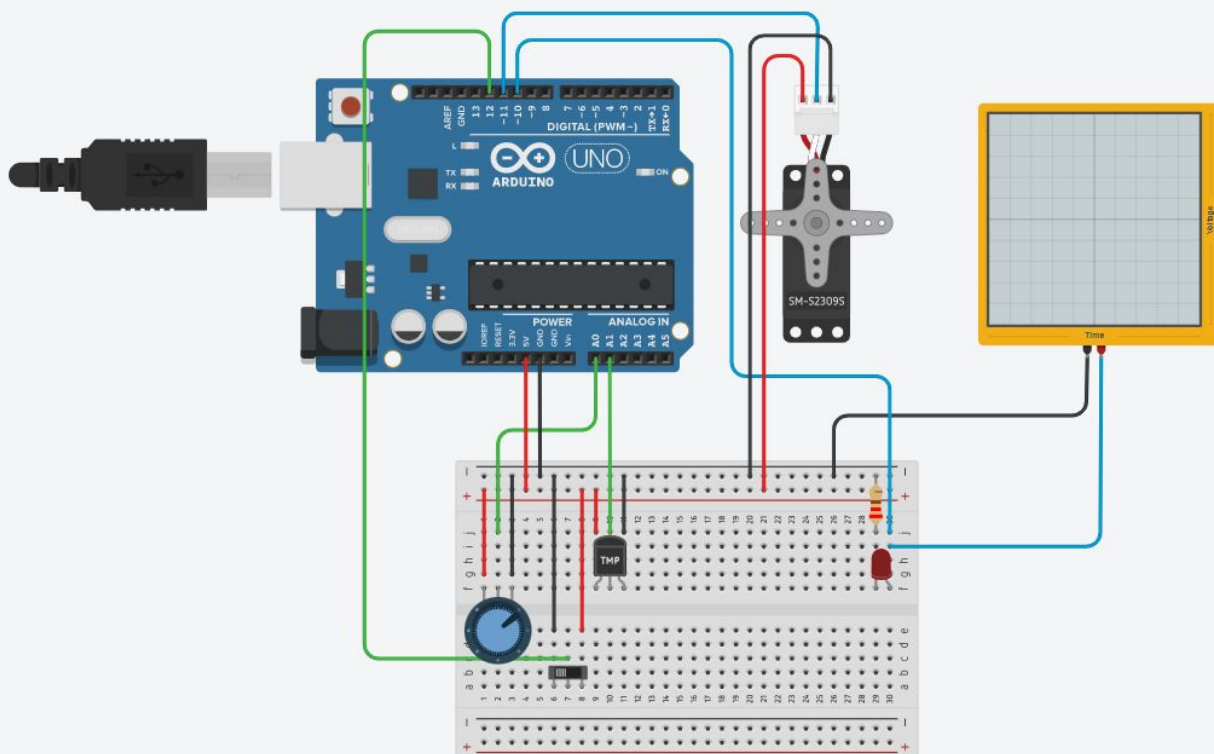
Text



1 (Arduino Uno R3)

```
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);  
}
```