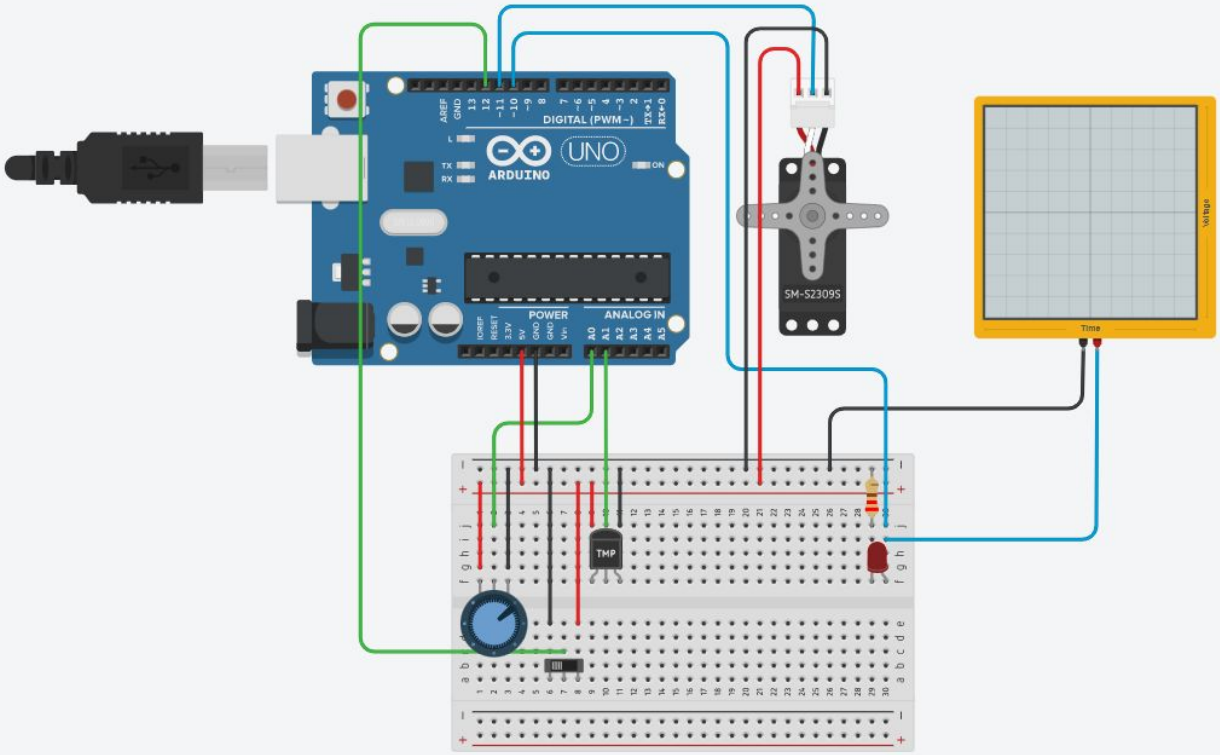
Circuit design Copy of Sensor an

tinkercad.com/things/kgVbs0SI1CG-copy-of-sensor-and-actuator-arduino/editel?tenant=circuits

Copy of Sensor and actuator Arduino

All changes saved

Code | Start Simulation | Send



Text | 1 (Arduino Uno R3)

```
#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);
}
```

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);
}
```