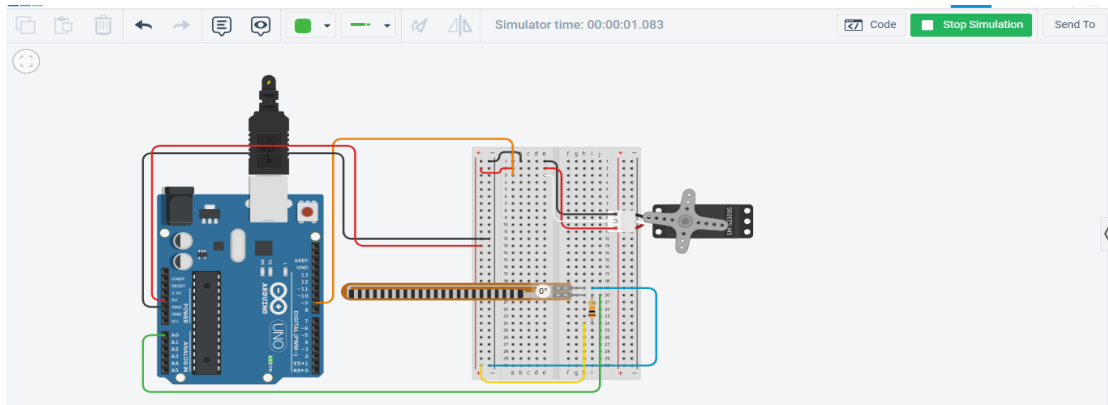


Flex Sensor and Servo using Arduino

DIAGRAM:



CODE:

```
#include <Servo.h>
```

```
Servo servo1; //Create a servo "object", called servo1.  
              //Each servo object controls one servo (you  
              //can have a maximum of 12).
```

```
const int flexPin = A0; //Define analog input pin to measure  
                        //flex sensor position.
```

```
void setup()  
{
```

```
  Serial.begin(9600); //Set serial baud rate to 9600 bps
```

```
  servo1.attach(9); // Enable control of a servo on pin 9  
}
```

```
void loop()
{
  int flexPosition; // Input value from the analog pin.
  int servoPosition; // Output value to the servo.

  // Read the position of the flex sensor (0 to 1023):

  flexPosition = analogRead(flexPin);

  servoPosition = map(flexPosition, 600, 900, 0, 180);
  servoPosition = constrain(servoPosition, 0, 180);

  // Now we'll command the servo to move to that position:

  servo1.write(servoPosition);

  Serial.print("sensor: ");
  Serial.print(flexPosition);
  Serial.print(" servo: ");
  Serial.println(servoPosition);

  delay(20); // wait 20ms between servo updates
}
```