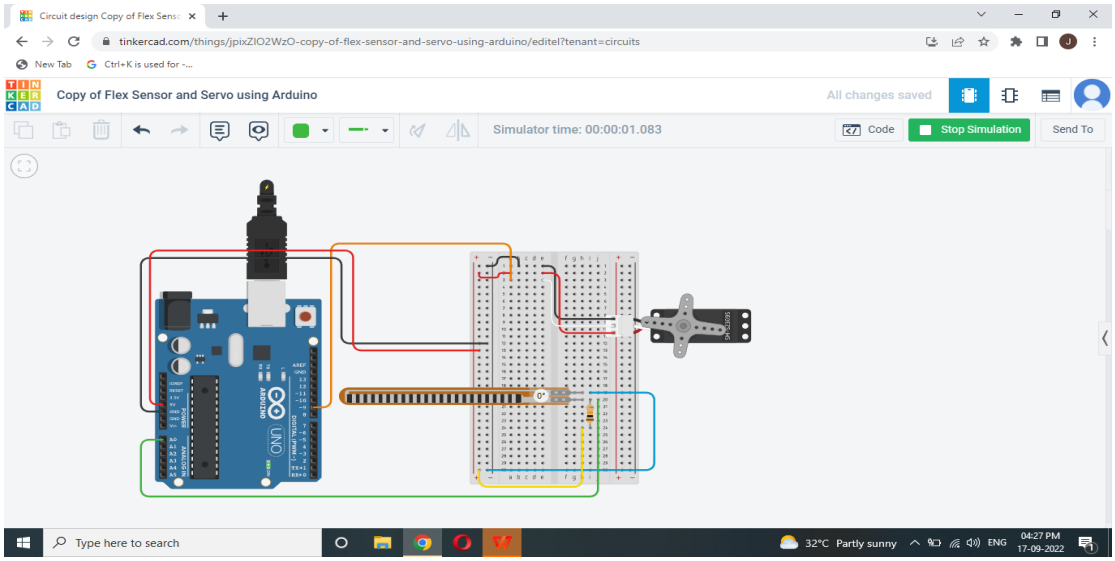
Flex Sensor and Servo using Arduino

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
}
```