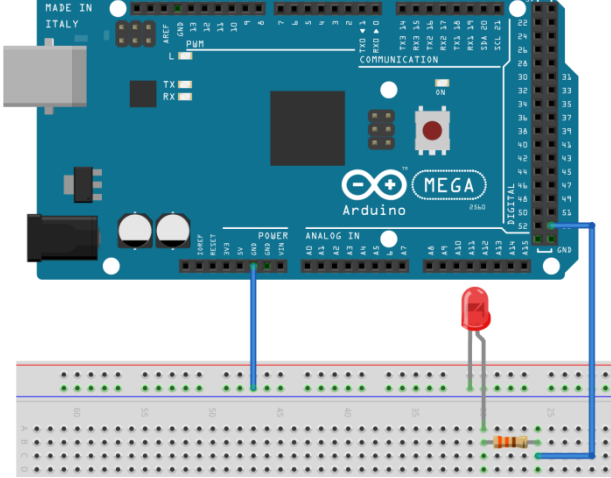
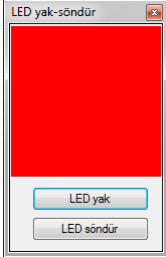
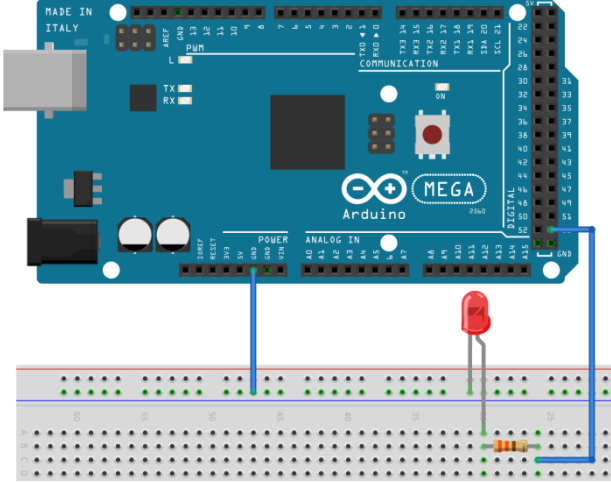
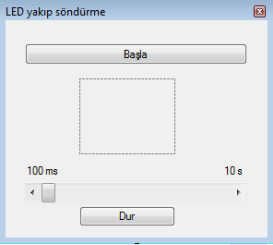
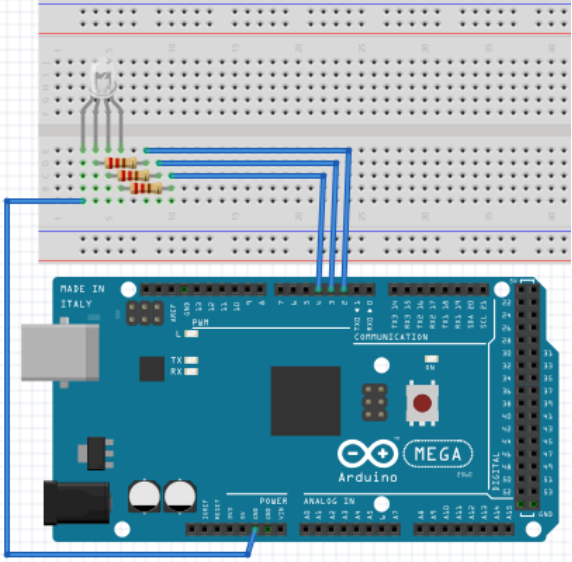
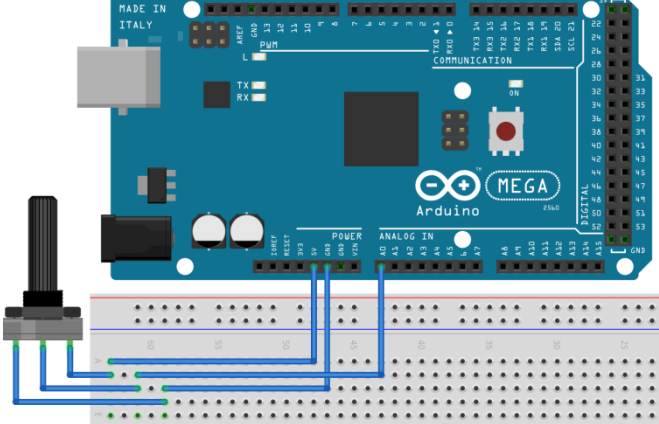
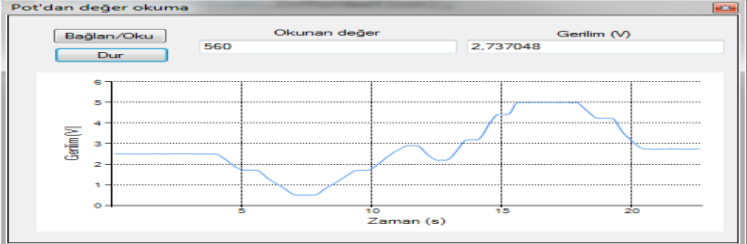
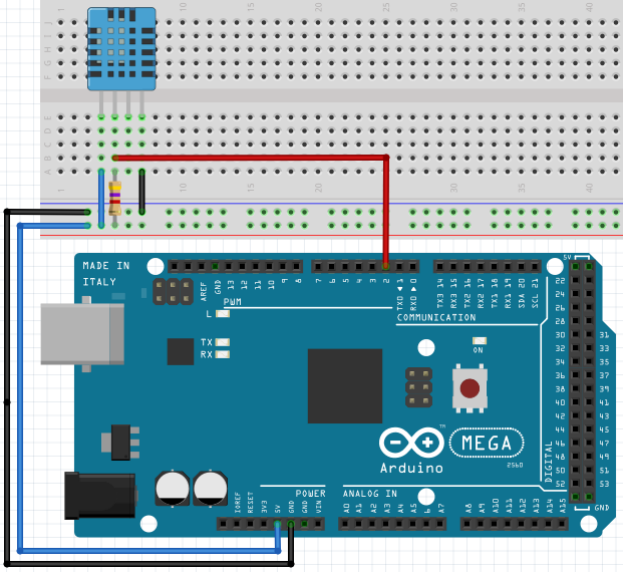
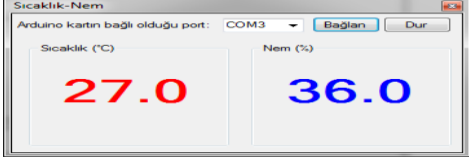


Uygulama	C# ORTAMINDAN LED YAKIP SÖNDÜRME	
Malzemeler	1 x 330 Ω direnç, 1 x LED	
Devre şeması		
Kod	<pre>// C# - Arduino LED yak-söndür void setup() { pinMode(53,OUTPUT); Serial.begin(9600); } void loop() { if (Serial.available()) { char x=Serial.read(); if (x=='A') digitalWrite(53,HIGH); if (x=='K') digitalWrite(53,LOW); } }</pre>	
		<pre>using System.IO.Ports; namespace led { public partial class Form1 : Form { SerialPort seriport; public Form1() { InitializeComponent(); seriport = new SerialPort("COM3", 9600); seriport.Open(); } private void button1_Click(object sender, EventArgs e) { seriport.Write("A"); panell.BackColor = System.Drawing.Color.Red; } private void button2_Click(object sender, EventArgs e) { seriport.Write("K"); panell.BackColor = SystemColors.Control; } } }</pre>

Uygulama	C# ORTAMINDAN LED YAKIP SÖNDÜRME (DEĞİŞKEN SÜRE)	
Malzemeler	1 x 330 Ω direnç, 1 x LED	
Devre şeması		
Kod	<pre>// C# - Arduino LED yak-söndür void setup() { pinMode(53,OUTPUT); Serial.begin(9600); } void loop() { if (Serial.available()) { char x=Serial.read(); if (x=='A') digitalWrite(53,HIGH); if (x=='K') digitalWrite(53,LOW); } }</pre> <div data-bbox="245 1151 518 1395" style="display: inline-block; vertical-align: top;">  </div> <pre>namespace LED_yanip_sonme { public partial class Form1 : Form { SerialPort sp; int s = 0; public Form1() { InitializeComponent(); sp = new SerialPort("COM3", 9600); sp.Open(); } private void button1_Click(object sender, EventArgs e) { timer1.Start(); } private void button2_Click(object sender, EventArgs e) { timer1.Stop(); } private void timer1_Tick(object sender, EventArgs e) { s++; if (s == 3) s = 1; if (s % 2 == 1) { sp.Write("A"); panell.BackColor = System.Drawing.Color.Red; } else { sp.Write("K"); panell.BackColor = System.Drawing.Color.Gray;}} private void hScrollBar1_Scroll(object sender, ScrollEventArgs e) { timer1.Interval = hScrollBar1.Value; } } }</pre>	

Uygulama	RGB LED
Malzemeler	3 x 220 Ω direnç 1 x RGB LED
Devre şeması	
Kod	<pre>// C#-Arduino RGB LED String ks,ys,ms; int k,y,m; void setup() { pinMode(2,OUTPUT);pinMode(3,OUTPUT);pinMode(4,OUTPUT); Serial.begin(9600); } void loop() { if (Serial.available(>0) { ks=Serial.readStringUntil(','); k=ks.toInt(); analogWrite(2,k); ys=Serial.readStringUntil(','); y=ys.toInt(); analogWrite(3,y); ms=Serial.readStringUntil(','); m=ms.toInt(); analogWrite(4,m); } } using System.IO.Ports; namespace rgb_led { public partial class Form1 : Form { SerialPort port; public Form1() { InitializeComponent(); port = new SerialPort("COM3", 9600); port.Open(); } private void button1_Click(object sender, EventArgs e) { int r, g, b; string rs, gs, bs; r = (int)numericUpDown1.Value; g = (int)numericUpDown2.Value; b = (int)numericUpDown3.Value; panell.BackColor = System.Drawing.Color.FromArgb(r, g, b); rs = r.ToString(); gs = g.ToString(); bs = b.ToString(); port.Write(rs); port.Write(","); port.Write(gs); port.Write(","); port.Write(bs); port.Write(","); } } }</pre>

Uygulama	10 K POT ÜZERİNDEN GERÇEK ZAMANLI GERİLİM OKUMA
Malzemeler	1 x 10 kΩ pot
Devre şeması	
Kod	<pre>// C# - Arduino 10k potansiyometreden gerilim okuma int x=0; void setup() { Serial.begin(9600); } void loop() { char y=Serial.read(); if (y=='B') { x=analogRead(A0); Serial.println(x); delay(100); } }</pre>
	
	<pre>using System.IO.Ports; namespace pot_uyg { public partial class Form1 : Form { SerialPort sp; double t = 0d; public Form1() { InitializeComponent(); sp = new SerialPort(); sp.PortName = "COM3"; sp.BaudRate = 9600; } private void button2_Click(object sender, EventArgs e) { timer1.Stop(); sp.Close(); } private void button1_Click(object sender, EventArgs e) { chart1.Series[0].Points.Clear(); t = 0; timer1.Start(); try { if (!sp.IsOpen) { sp.Open(); MessageBox.Show("Bağlantı kuruldu", "Bilgi", MessageBoxButtons.OK, MessageBoxIcon.Information); }} catch { MessageBox.Show("Bağlantı kurulamadı", "Uyarı", MessageBoxButtons.OK, MessageBoxIcon.Warning); }} private void timer1_Tick(object sender, EventArgs e) { try { sp.Write("B"); int gelen = Convert.ToInt32(sp.ReadExisting()); textBox1.Text = Convert.ToString(gelen); float gerilim = 5f * gelen / 1023f; t += 0.1; chart1.Series[0].Points.AddXY(t, gerilim); textBox2.Text = gerilim.ToString(); System.Threading.Thread.Sleep(100); } catch (Exception) { } } } }</pre>

Uygulama	GERÇEK ZAMANLI SICAKLIK-NEM ÖLÇÜMÜ
Malzemeler	1 x DHT11 sıcaklık-nem sensörü 1 x 4.7 kΩ direnç
Devre şeması	
Kod	<pre>#include <DHT11.h> DHT11 sensor(2); void setup() { Serial.begin(9600); } void loop() { float nem,isi; int veri=sensor.read(nem,isi); Serial.print(nem,2); Serial.print(","); Serial.print(isi,2); Serial.println();delay(2000); }</pre>
	 <pre>using System.IO.Ports; namespace ornek4 { public partial class Form1 : Form { SerialPort port; public Form1() { InitializeComponent(); } private void Form1_Load(object sender, EventArgs e) { for (int i = 0; i < System.IO.Ports.SerialPort.GetPortNames().Length; i++) comboBox1.Items.Add(System.IO.Ports.SerialPort.GetPortNames()[i]); } private void button1_Click(object sender, EventArgs e) { port=new SerialPort();port.PortName=comboBox1.Text;port.Open();timer1.Start(); } private void timer1_Tick(object sender, EventArgs e) { String veri=port.ReadLine().ToString(); String[] sn = veri.Split(','); label2.Text = sn[1].ToString(); label3.Text = sn[0].ToString(); } private void button2_Click(object sender, EventArgs e) { timer1.Stop(); port.Close(); } }</pre>