

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.IO;
using System.IO.Ports;

namespace grafik
{
    public partial class Form1 : Form
    {
        int maksmh = 20, minmh = 0;
        int maksma = 20, minma = 0;
        int maksmt = 20, minmt = 0;
        int maksmg = 20, minmg = 0;
        int maksmc = 20, minmc = 0;
        string hiz, akim;

        double hiz1, akim1, w, GirisG, voltaj, tork, direnc, CikisG, kayip;

        private void dataGridView1_CellContentClick(object sender,
DataGridViewCellEventArgs e)
        {
        }

        public Form1()
        {
            InitializeComponent();
            serialPort1.PortName = comboBox1.Text; ;
            serialPort1.BaudRate = 9600;
            serialPort2.PortName = comboBox1.Text; ;
            serialPort2.BaudRate = 9600;

        }

        private void comboBox1_SelectedIndexChanged(object sender, EventArgs e)
        {
        }

        private void Form1_Load(object sender, EventArgs e)
        {
            comboBox1.Items.Add("COM1");
            comboBox1.Items.Add("COM2");
            comboBox1.Items.Add("COM3");
        }

        private void timer1_Tick(object sender, EventArgs e)

```

```

{
    chart1.ChartAreas[0].AxisX.Minimum = minmh;
    chart1.ChartAreas[0].AxisX.Maximum = maksmh;
    chart1.ChartAreas[0].AxisX.LineColor = Color.Green;
    chart1.ChartAreas[0].AxisY.LineColor = Color.Green;
    chart1.ChartAreas[0].AxisY.Minimum = 0;
    chart1.ChartAreas[0].AxisY.Maximum = 1200;
    chart1.ChartAreas[0].AxisX.ScaleView.Zoom(minmh, maksmh);

    chart1.ChartAreas[1].AxisX.Minimum = minma;
    chart1.ChartAreas[1].AxisX.Maximum = maksma;
    chart1.ChartAreas[1].AxisX.LineColor = Color.Blue;
    chart1.ChartAreas[1].AxisY.LineColor = Color.Blue;
    chart1.ChartAreas[1].AxisY.Minimum = 0;
    chart1.ChartAreas[1].AxisY.Maximum = 1200;
    chart1.ChartAreas[1].AxisX.ScaleView.Zoom(minma, maksma);

    chart1.ChartAreas[2].AxisX.Minimum = minmt;
    chart1.ChartAreas[2].AxisX.Maximum = maksmt;
    chart1.ChartAreas[2].AxisX.LineColor = Color.Yellow;
    chart1.ChartAreas[2].AxisY.LineColor = Color.Yellow;
    chart1.ChartAreas[2].AxisY.Minimum = 0;
    chart1.ChartAreas[2].AxisY.Maximum = 1200;
    chart1.ChartAreas[2].AxisX.ScaleView.Zoom(minmt, maksmt);

    serialPort1.Write("1");
    hiz = serialPort1.ReadLine();

    serialPort2.Write("2");
    akim = serialPort2.ReadLine();

    serialPort1.DiscardInBuffer();
    serialPort2.DiscardInBuffer();
    if (hiz != null)
    {
        label1.Text = hiz + "d/d"; //Labele yazdırıyoruz.
        this.chart1.Series["Rpm"].Points.AddXY((minmh + maksmh) / 2, hiz);
        maksmh++;
        minmh++;

        label2.Text = akim + "A"; //Labele yazdırıyoruz.
        this.chart1.Series["Akim"].Points.AddXY((minma + maksma) / 2, akim);
        maksma++;
        minma++;

        akim1 = Convert.ToDouble(akim);
        hiz1 = Convert.ToDouble(hiz);

        w = (hiz1 * 0.1047);
        GirisG = voltaj * akim1;
        kayip = direnc * akim1;

        CikisG = GirisG - kayip;

        tork = CikisG / w;

        label7.Text = GirisG + "W"; //Labele yazdırıyoruz.
        this.chart1.Series["GirisGücü"].Points.AddXY((minmg + maksmg) / 2,
GirisG);

```

```

        maksmg++;
        minmg++;

        label8.Text = CikisG + "W"; //Labele yazdırıyoruz.
        this.chart1.Series["CikisGücü"].Points.AddXY((minmc + maksmc) / 2,
CikisG);
        maksmc++;
        minmc++;

        label3.Text = tork + "Nm"; //Labele yazdırıyoruz.
        this.chart1.Series["tork"].Points.AddXY((minmt + maksmt) / 2, tork);
        maksmt++;
        minmt++;
        dataGridView1.Rows.Add(hiz1, akim1, tork, GirisG, CikisG);
    }

}

private void button2_Click(object sender, EventArgs e)
{
    serialPort1.Close();
    serialPort2.Close();
    timer1.Stop();
    button1.Enabled = true;
}

private void button1_Click(object sender, EventArgs e)
{
    /*    serialPort1.Open();
        serialPort2.Open();
        timer1.Start();
        button1.Enabled = false;
    */

    dataGridView1.AllowUserToAddRows = true;
    voltaj = Convert.ToDouble(textBox1.Text);
    direnc = Convert.ToDouble(textBox2.Text);
    int i;
    progressBar1.Minimum = 0;
    progressBar1.Maximum = 1000;

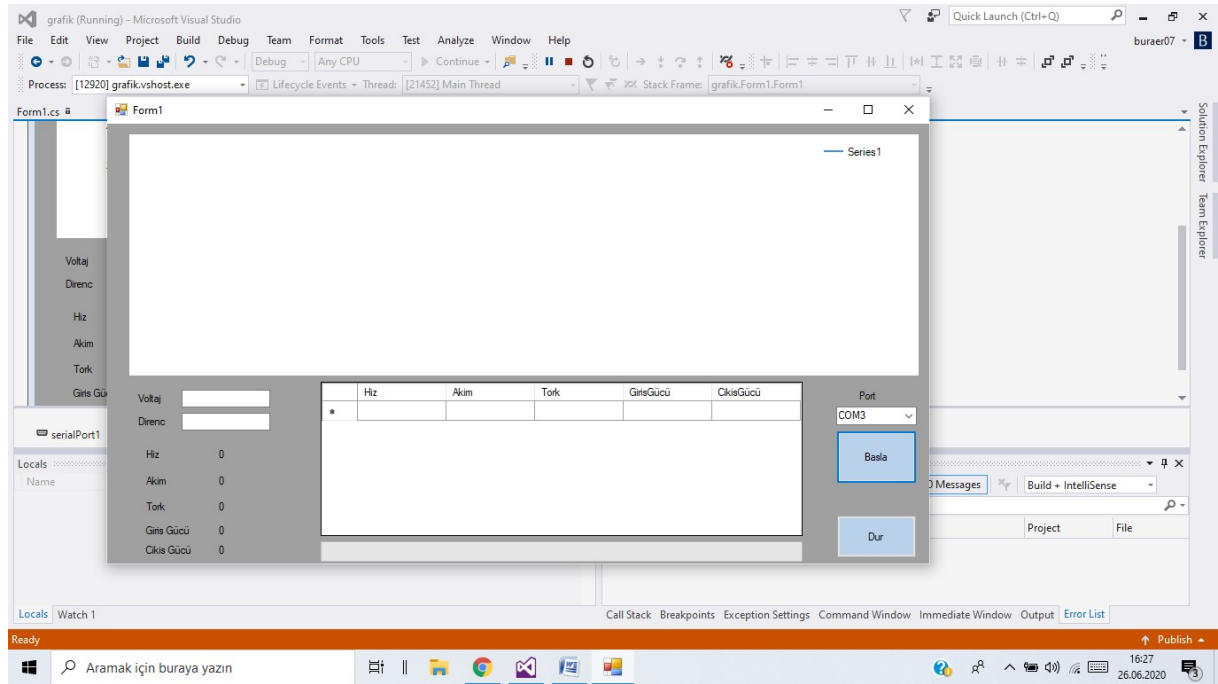
    for (i = 0; i <= 1000; i++)
    {
        progressBar1.Value = i;
    }

}

private void chart1_Click(object sender, EventArgs e)
{
}

}
}

```



STM32f407vgx

```
#include "stm32f4xx.h"
```

```
unsigned int adc;  
float voltaj1, voltaj2;  
int i=0;
```

```
int main () {
```

```
    RCC->AHB1ENR |= RCC_AHB1ENR_GPIOAEN;
```

```
    GPIOA->MODER |= GPIO_MODER_MODE0_0 | GPIO_MODER_MODE0_1;  
    GPIOA->MODER |= GPIO_MODER_MODE1_0 | GPIO_MODER_MODE1_1;
```

```
    RCC->APB2ENR |= RCC_APB2ENR_ADC1EN;
```

```
    ADC1->CR2 |= ADC_CR2_ADON;
```

```
    ADC1->CR1 |= ADC_CR1_SCAN;
```

```
    ADC1->CR2 |= ADC_CR2_CONT;
```

```
    ADC1->CR2 |= ADC_CR2_EOCS;
```

```
    ADC1->SMPR2 |= ADC_SMPR2_SMP0_0 | ADC_SMPR2_SMP0_1 | ADC_SMPR2_SMP0_2;  
    ADC1->SMPR2 |= ADC_SMPR2_SMP1_0 | ADC_SMPR2_SMP1_1 | ADC_SMPR2_SMP1_2;
```

```
    ADC1->SQR1 |= ADC_SQR1_L_0;
```

```

ADC1->SQR3 |= ADC_SQR3_SQ2_0;

ADC123_COMMON->CCR |= ADC_CCR_ADCPRE_0 | ADC_CCR_ADCPRE_1;

ADC1->CR2 |= ADC_CR2_SWSTART;

while(1){
    while(!(ADC1->SR & ADC_SR_EOC));

    if(i%2==0){
        adc=ADC1->DR;
        voltaj1= ((float)adc/4096.)*3;
    }else{
        adc=ADC1->DR;
        voltaj2= ((float)adc/4096.)*3;
    }
    i++;
}

```

ARDUİNO

```

int i;

int a;

void setup()
{
    Serial.begin(9600);
}

void loop()
{
    i=analogRead(A0);

    if(Serial.read()=="1")
    {
        Serial.println(i);

        delay(5);
    }

    i=analogRead(A1);

    if(Serial.read()=="2")

```

```
{
```

```
  Serial.println(a);
```

```
  delay(5);
```

```
}
```

```
}
```