

## Laboratory 4 – Exercises.

## Exercises 1 and 2.

Form1

jocurile  
video  
sunt  
viata  
mea

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Add List

1234

2253.2

CtoF

FtoC

4456

Convert

935.76

21/04/2023 13:50:52

1.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Services;

namespace WebApplication1
{
    /// <summary>
    /// Summary description for WebService1
    /// </summary>
    [WebService(Namespace = "http://tempuri.org/")]
    [WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]
    [System.ComponentModel.ToolboxItem(false)]

    // To allow this Web Service to be called from script, using ASP.NET AJAX, uncomment the
    // following line.
    // [System.Web.Script.Services.ScriptService]
    public class WebService1 : System.Web.Services.WebService
    {
        // Conversion from F to C and from C to F
        [WebMethod]
        public double ConvertTemp(double temp, string unit)
        {
            if (unit == "F")
            {
                return (temp - 32) * 5 / 9;
            }
            else if (unit == "C")
            {
                return (temp * 9 / 5) + 32;
            }
            else
            {
                return 0;
            }
        }

        //Date and time of the day
        [WebMethod]
        public string GetDate()
        {
            return DateTime.Now.ToString("dd/MM/yyyy HH:mm:ss");
        }

        //List of 5 elements
        [WebMethod]
        public string[] DisplayElements(string str)
        {
            return str.Split(' ');
        }

        //RON TO EURO
        [WebMethod]
        public double ConvertRONtoEURO(double ron)
        {
            return ron * 0.21;
        }
    }
}
```

## WebService1

The following operations are supported. For a formal definition, please review the [Service Description](#).

- [ConvertRONtoEURO](#)
- [ConvertTemp](#)
- [DisplayElements](#)
- [GetDate](#)

### ConvertRONtoEURO

#### Test

To test the operation using the HTTP POST protocol, click the 'Invoke' button.

Parameter	Value
ron:	<input type="text"/>
<input type="button" value="Invoke"/>	

---

### ConvertTemp

#### Test

To test the operation using the HTTP POST protocol, click the 'Invoke' button.

Parameter	Value
temp:	<input type="text"/>
unit:	<input type="text"/>
<input type="button" value="Invoke"/>	

### DisplayElements

#### Test

To test the operation using the HTTP POST protocol, click the 'Invoke' button.

Parameter	Value
str:	<input type="text"/>
<input type="button" value="Invoke"/>	

---

### GetDate

#### Test

To test the operation using the HTTP POST protocol, click the 'Invoke' button.

<input type="button" value="Invoke"/>
---------------------------------------

2.

```
public partial class Form1 : Form
{
    ServiceReference4.WebService1SoapClient client = new ServiceReference4.
WebService1SoapClient();
    public Form1()
    {
        InitializeComponent();
    }

    private void Form1_Load(object sender, EventArgs e)
    {
        var response = client.GetDateAsync();
        labelDT.Text = response.Result.Body.GetDateResult;
    }

    private void buttonAdd_Click(object sender, EventArgs e)
    {
        var response = client.DisplayElementsAsync(textBoxAdd.Text);
        listBox1.BeginUpdate();
        listBox1.Items.Clear();
        foreach (var item in response.Result.Body.DisplayElementsResult)
        {
            listBox1.Items.Add(item);
        }

        listBox1.EndUpdate();
    }

    private void buttonConv_Click(object sender, EventArgs e)
    {
        var response = client.ConvertRONtoEUROAsync(Convert.ToDouble(textBoxRon.Text
));
        textBoxEur.Text = response.Result.ToString();
    }

    private void buttonCtoF_Click(object sender, EventArgs e)
    {
        var response = client.ConvertTempAsync(Convert.ToDouble(textBoxC.Text), "C");
        textBoxResult.Text = response.Result.Body.ConvertTempResult.ToString();
    }

    private void buttonFtoC_Click(object sender, EventArgs e)
    {
        var response = client.ConvertTempAsync(Convert.ToDouble(textBoxF.Text), "F");
        textBoxResult.Text = response.Result.Body.ConvertTempResult.ToString();
    }
}
```