# asin web service



#### Visual Studio 2022

#### Open recent

As you use Visual Studio, any projects, folders, or files that you open will show up here for quick access.

You can pin anything that you open frequently so that it's always at the top of the list.

#### Get started



#### Start learning

Learn the basics, explore settings, or create projects step-by-step with guides



#### Clone a repository

Get code from an online repository like GitHub or Azure DevOps



#### Open a project or solution

Open a local Visual Studio project or .sln file



#### Open a local folder

Navigate and edit code within any folder

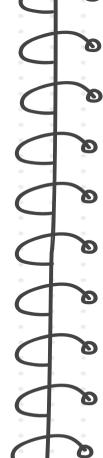


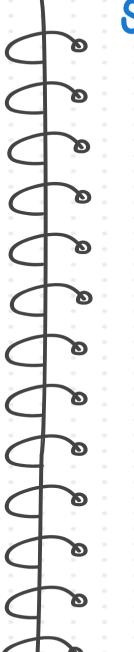
#### Create a new project

Choose a project template with code scaffolding to get started

Continue without code  $\rightarrow$ 



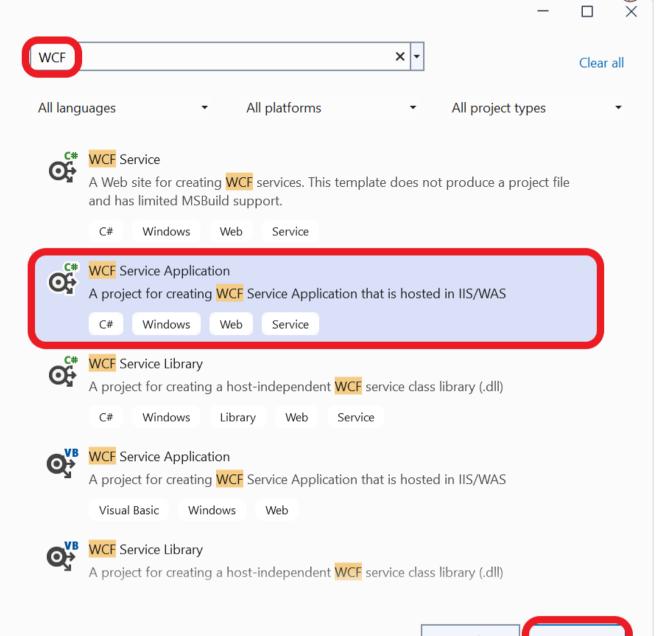






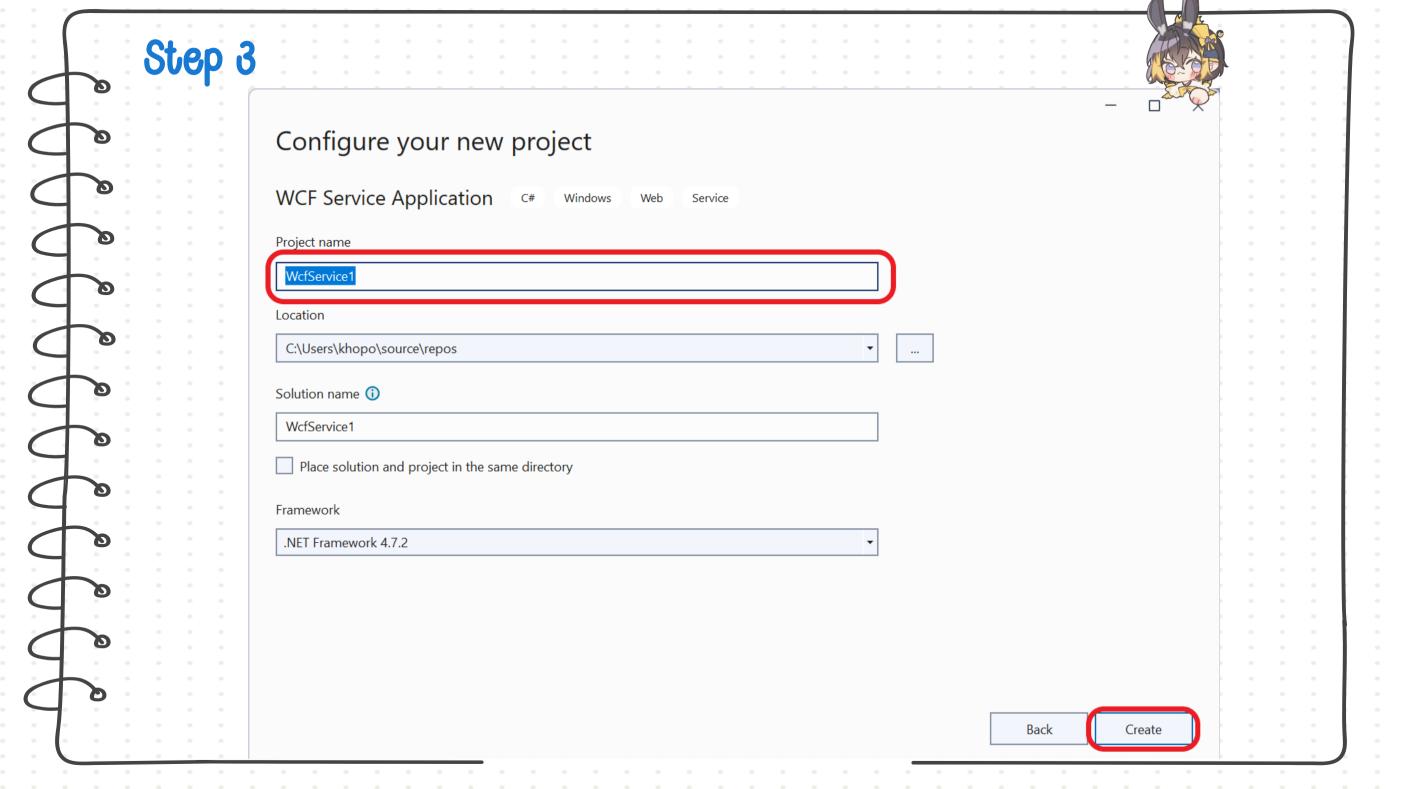
#### Recent project templates

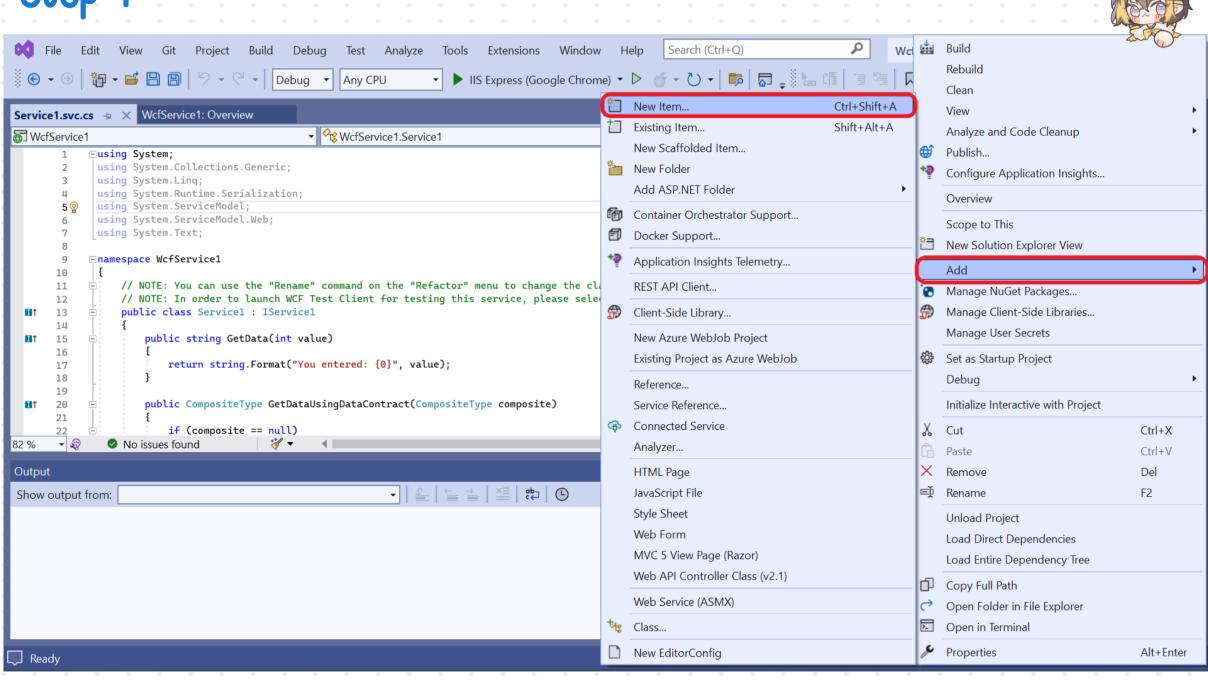
- **₩CF** Service Application
- ASP.NET Web Application (.NET Framework)

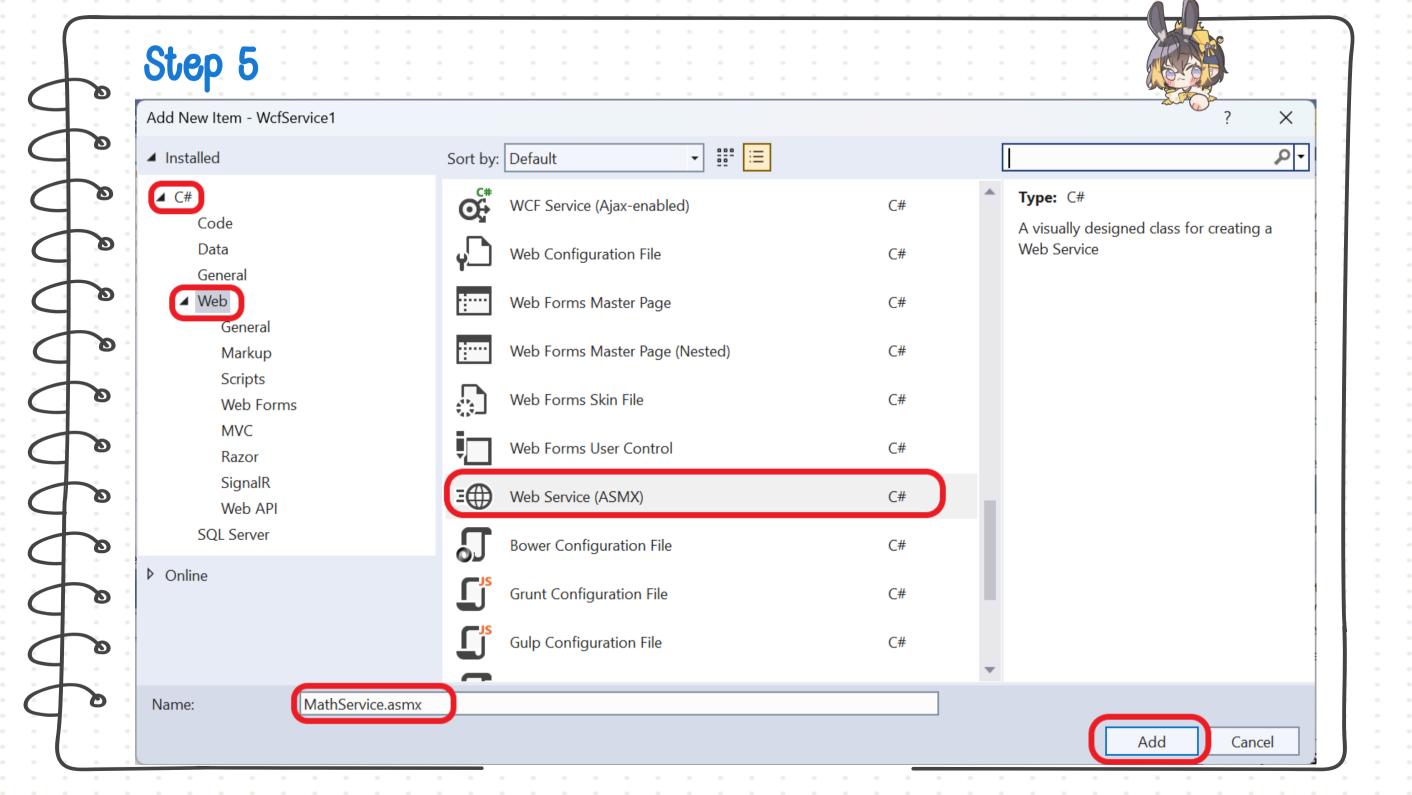


Back

Next







#### Step 6 Test Analyze Tools Extensions Window Help Project Build Debug I ← Live Share WcfService1: Overview MathService.asmx.cs → X Service1.svc.cs ▼ Solution Explorer → WcfService1.WebService1 Subtract(double a, double b) ₩cfService1 using System.Web.Services; Search Solution Explorer (Ctrl+:) namespace WcfService1 Connected Services /// <summarv> ▶ Properties /// Summary description for WebService1 ▶ ₽ References 11 /// </summarv> App Data 12 [WebService(Namespace = "http://tempuri.org/")] [WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1\_1)] 13 C# IService1.cs [System.ComponentModel.ToolboxItem(false)] 14 ▲ = ⊕ MathService.asmx // To allow this Web Service to be called from script, using ASP.NET AJAX, uncomment the following line. 15 // [System.Web.Script.Services.ScriptService] 16 MathService.asmx.cs 17 public class WebService1 : System.Web.Services.WebService ▶ =⊕ Service1.svc 18 19 [WebMethod] ▶ ■ Web.config 20 public double Add(double a, double b) 21 Solution Explorer Git Changes 22 return (a + b); 23 Properties 248 [WebMethod] 25 public double Subtract(double a, double b) 26 27 return (a - b); 28 29 30 [WebMethod] No issues found Ln: 24 Ch: 9 SPC CRLE Output Show output from: ↑ Add to Source Control ▲ Ready

```
[WebMethod]
  public double Add(double a,
double b)
      return (a + b);
  [WebMethod]
  public double
Subtract(double a, double b)
      return (a - b);
```

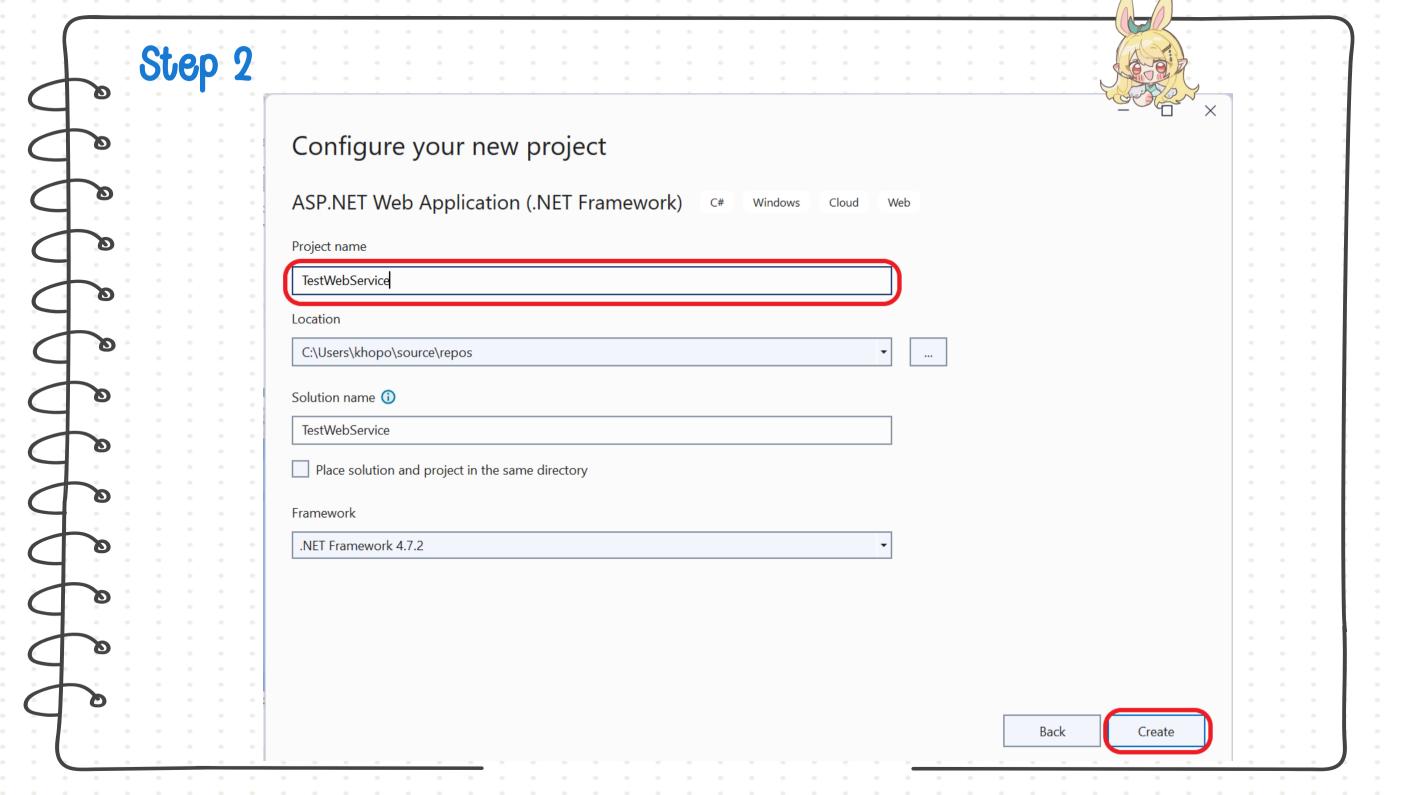


```
[WebMethod]
   public double
Multiply(double a, double b)
      return a * b;
   [WebMethod]
   public double Divide (double
a, double b)
      if (b == 0)
          return -1;
      return a / b;
```

# สร้าง web page เพื่อทดสอบ web service



Step Create a new project ASP.NET web application Clear all All platforms All project types Recent project templates All languages ASP.NET Web Application (.NET Framework) WCF Service Application Project templates for creating ASP.NET applications. You can create ASP.NET Web Forms, MVC, or Web API applications and add many other features in ASP.NET. ASP.NET Web Application (.NET Framework) Cloud Windows ASP.NET Web Application (.NET Framework) Project templates for creating ASP.NET applications. You can create ASP.NET Web Forms, MVC, or Web API applications and add many other features in ASP.NET. Visual Basic Windows ASP.NET Core Web App A project template for creating an ASP.NET Core application with example ASP.NET Core Razor Pages content ASP.NET Core Web API A project template for creating an ASP.NET Core application with an example Controller for a RESTful HTTP service. This template can also be used for ASP.NET Core MVC Views and Controllers. Back Next





 $\Box$ 

### Create a new ASP.NET Web Application



#### **Empty**

An empty project template for creating ASP.NET applications. This template does not have any content in it.



#### **Web Forms**

A project template for creating ASP.NET Web Forms applications. ASP.NET Web Forms lets you build dynamic websites using a familiar drag-and-drop, event-driven model. A design surface and hundreds of controls and components let you rapidly build sophisticated, powerful UI-driven sites with data access.



#### MVC

A project template for creating ASP.NET MVC applications. ASP.NET MVC allows you to build applications using the Model-View-Controller architecture. ASP.NET MVC includes many features that enable fast, test-driven development for creating applications that use the latest standards.



#### Web API

A project template for creating RESTful HTTP services that can reach a broad range of clients including browsers and mobile devices.



#### **Single Page Application**

A project template for creating rich client side JavaScript driven HTML5 applications using ASP.NET Web API. Single Page Applications provide a rich user experience which includes client-side interactions using HTML5, CSS3, and

#### Authentication

None

#### Add folders & core references

- Web Forms
- MVC
- Web API

#### Advanced

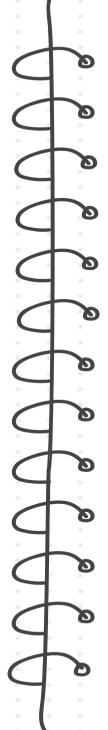
- ✓ Configure for HTTPS
- Docker support
  (Requires Docker Desktop)

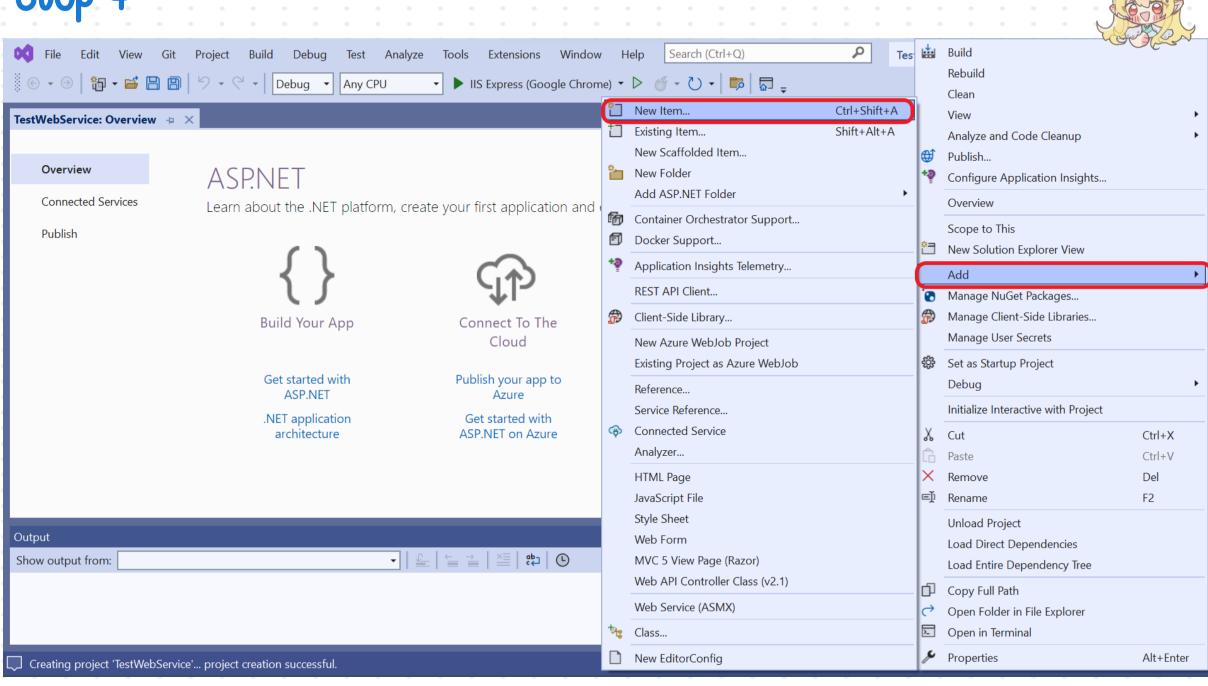
Also create a project for unit tests

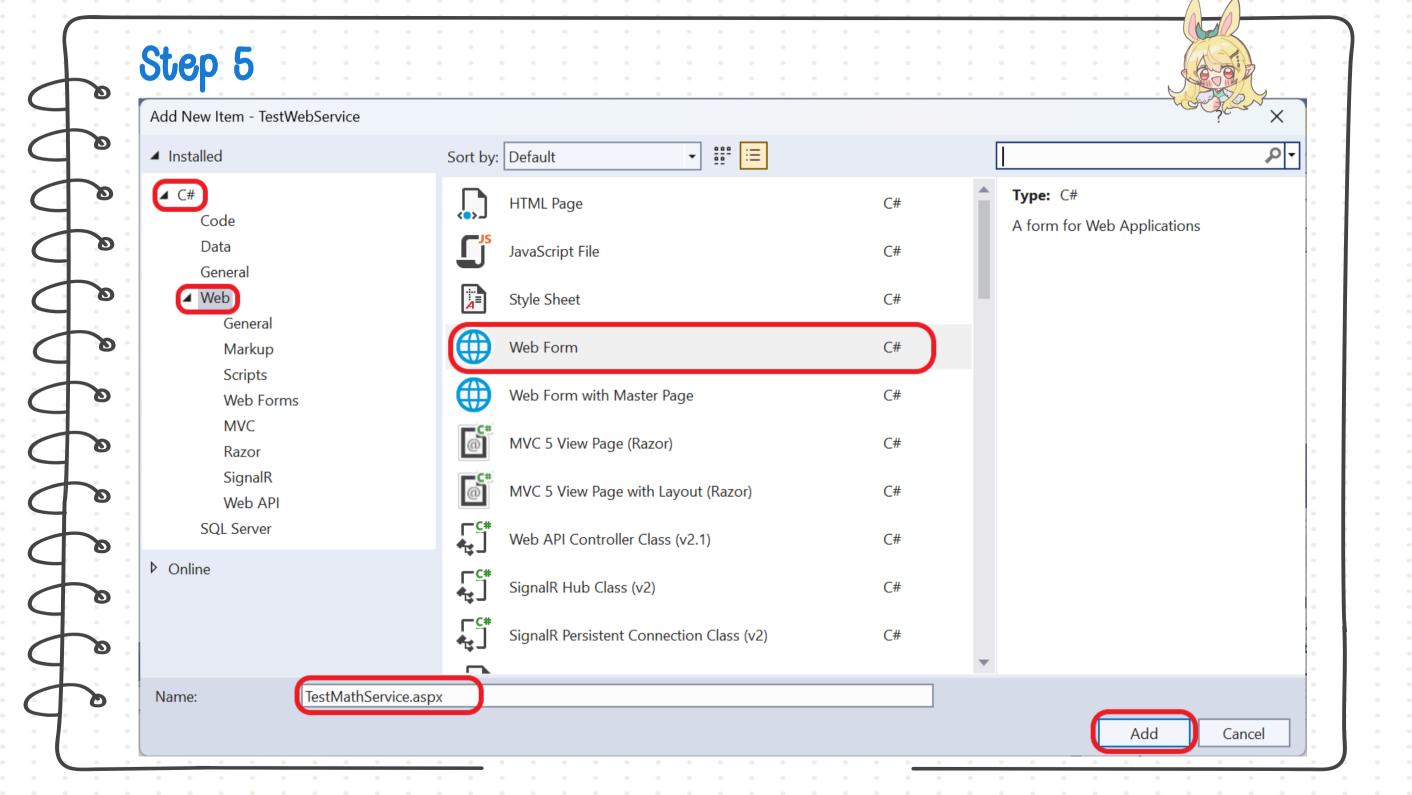
Toot\MalaConica Toota

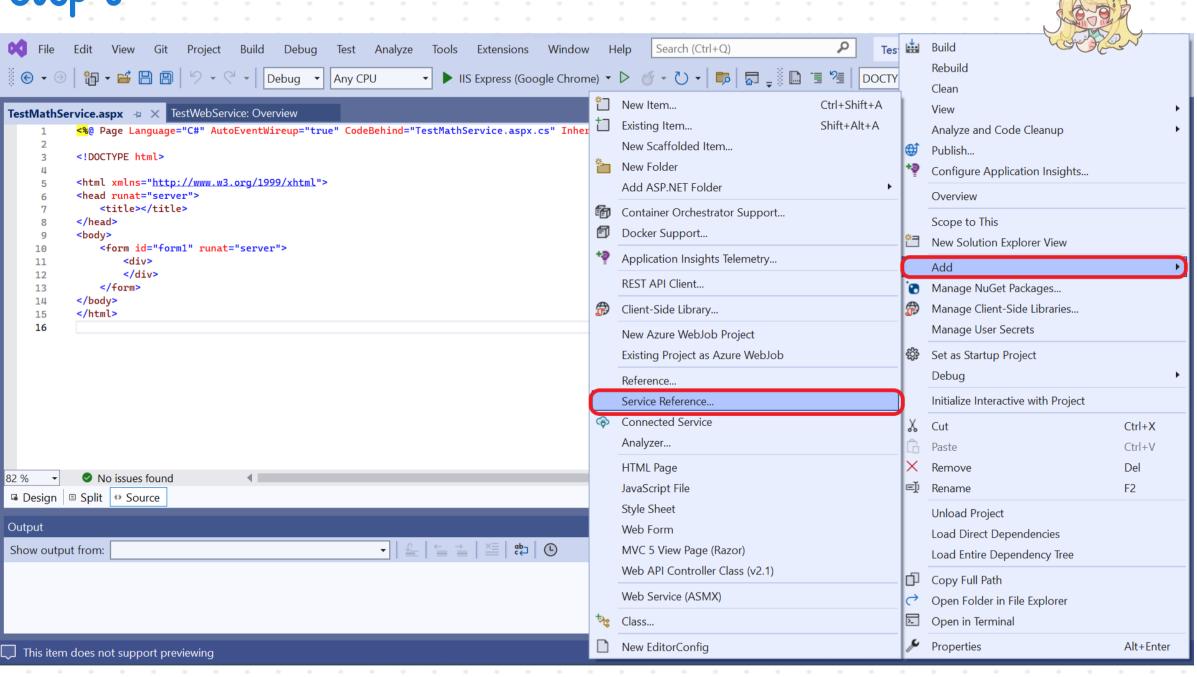
Back

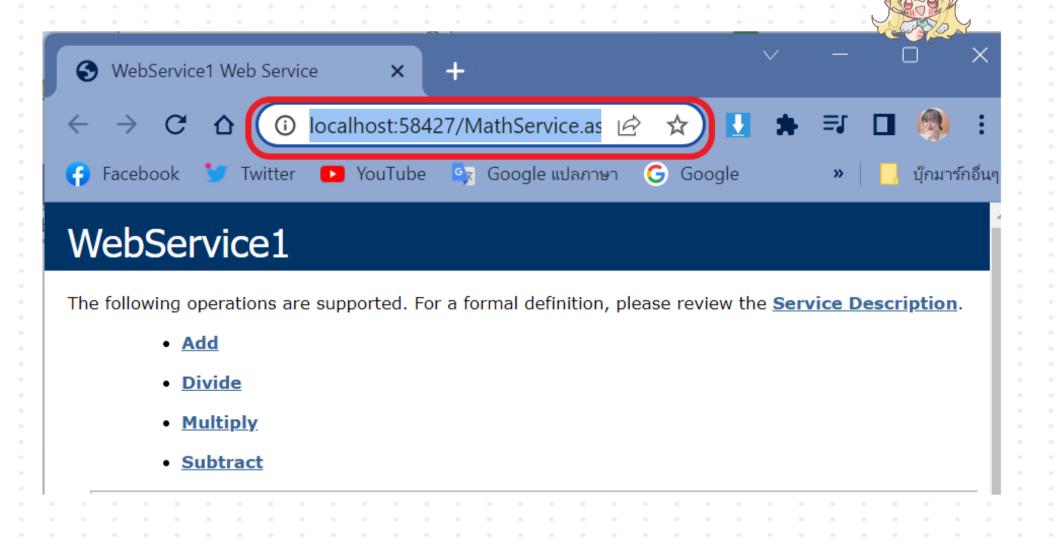
Create

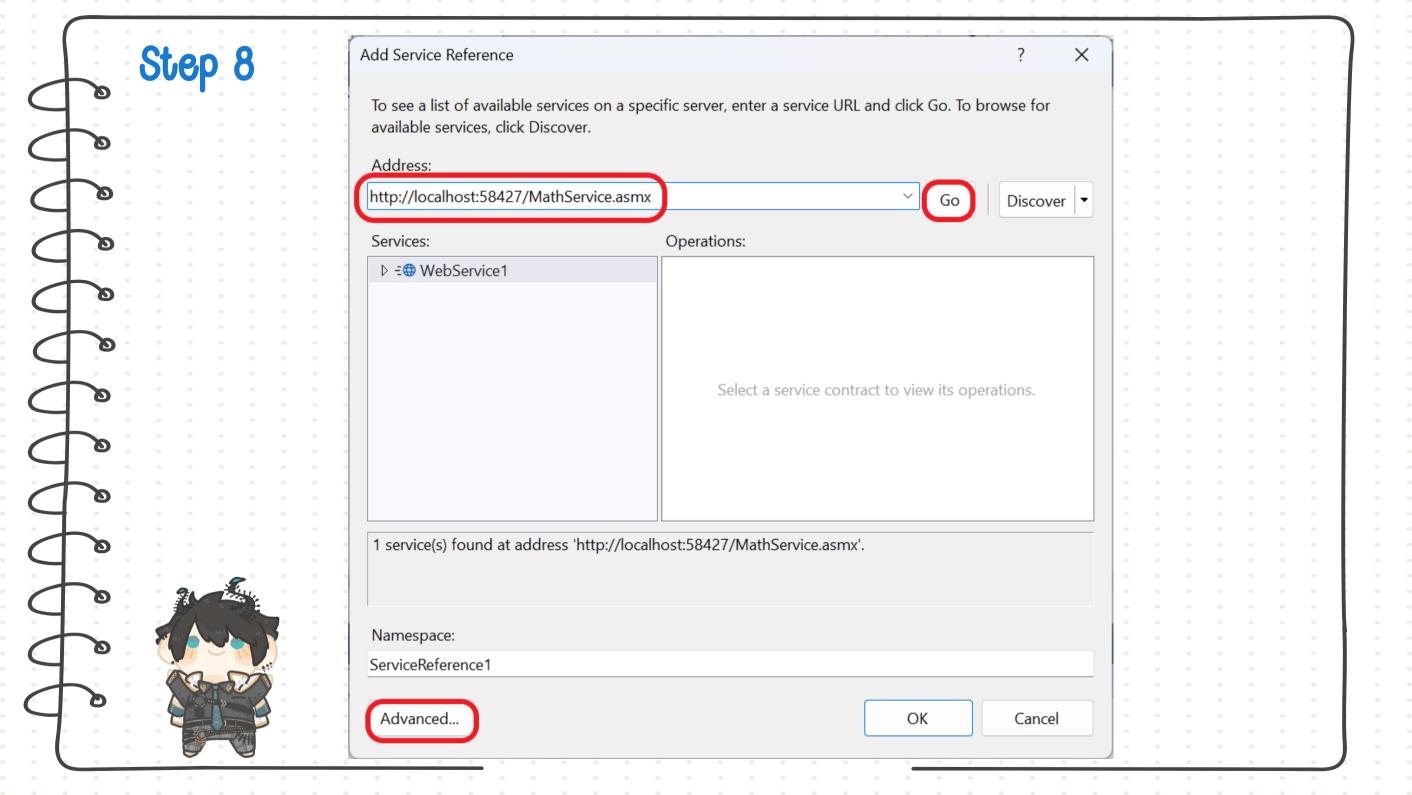


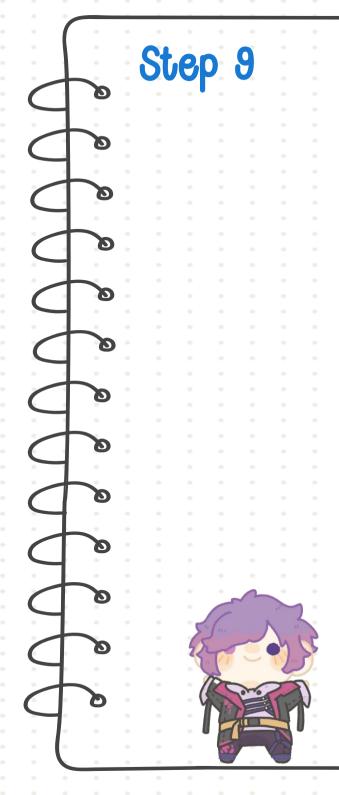




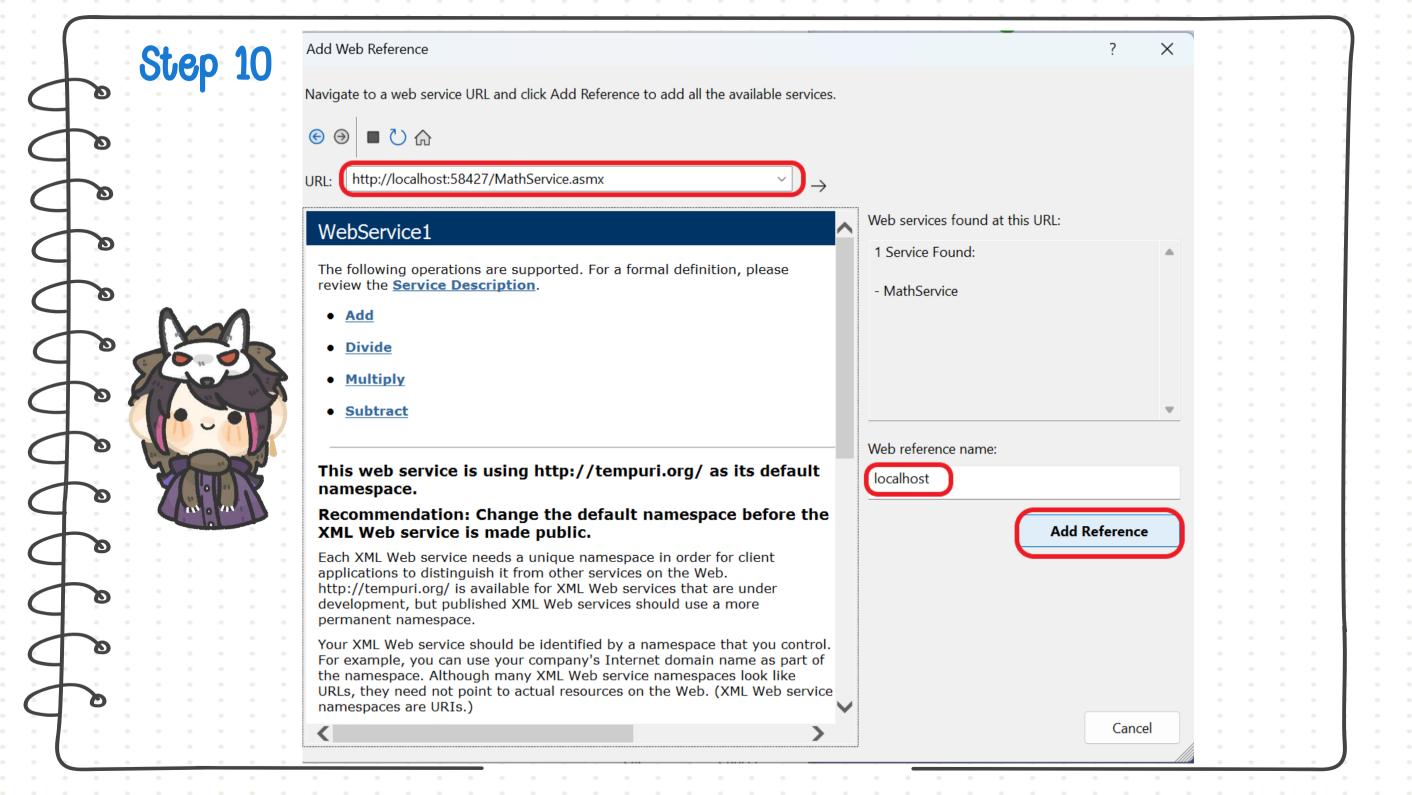


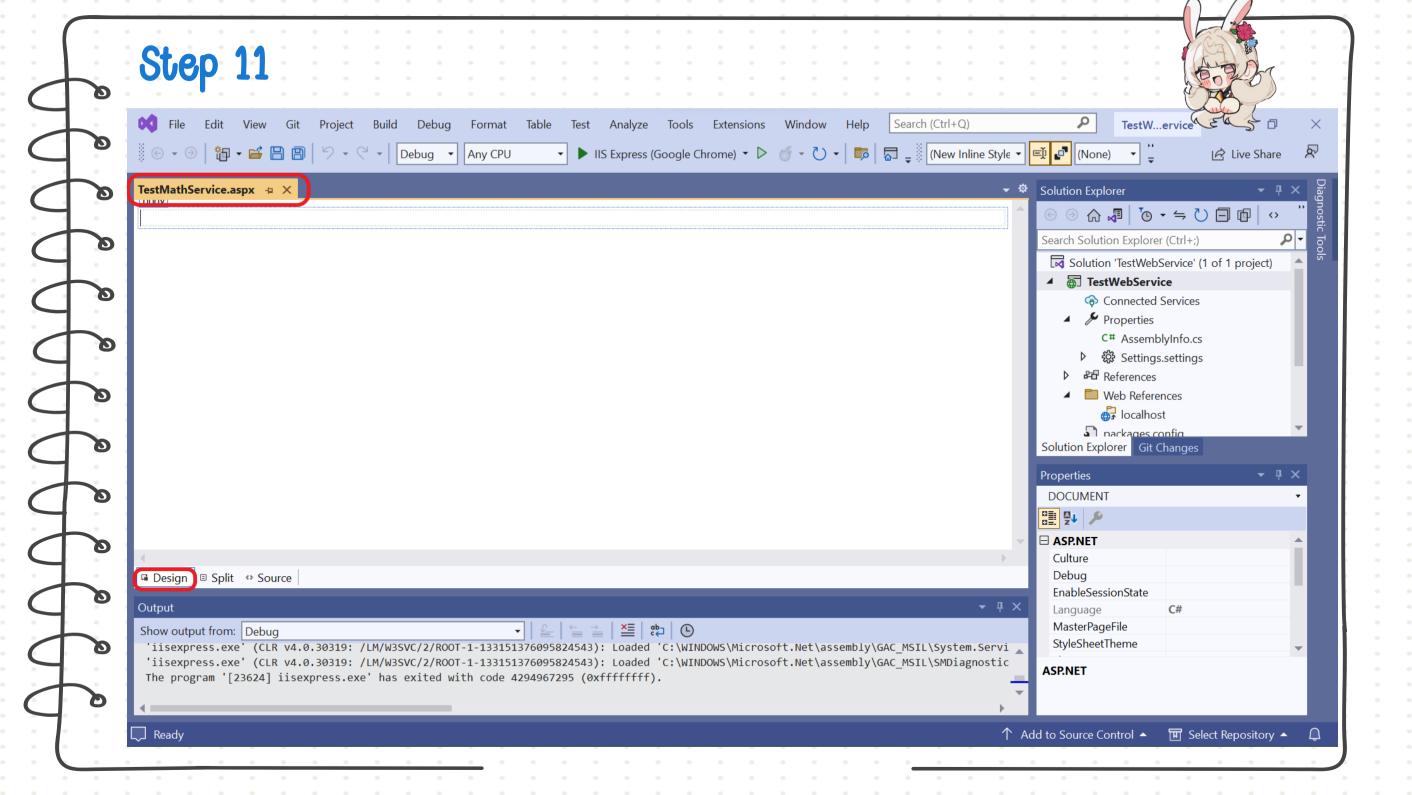


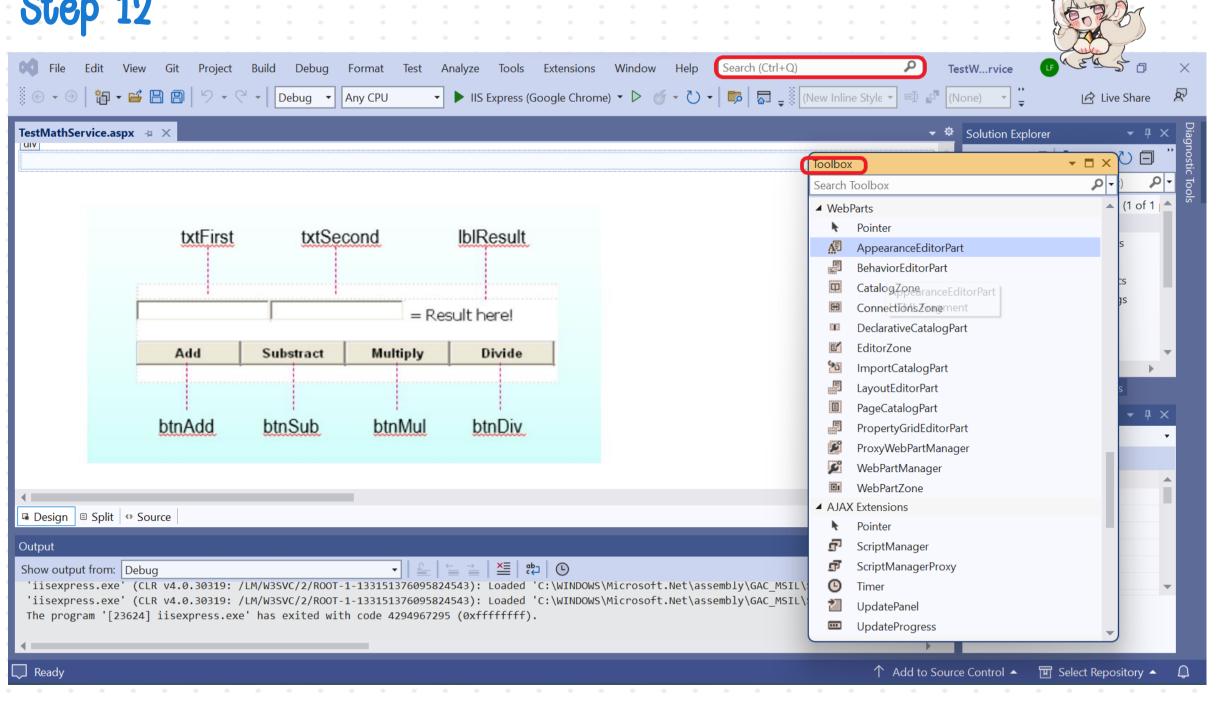


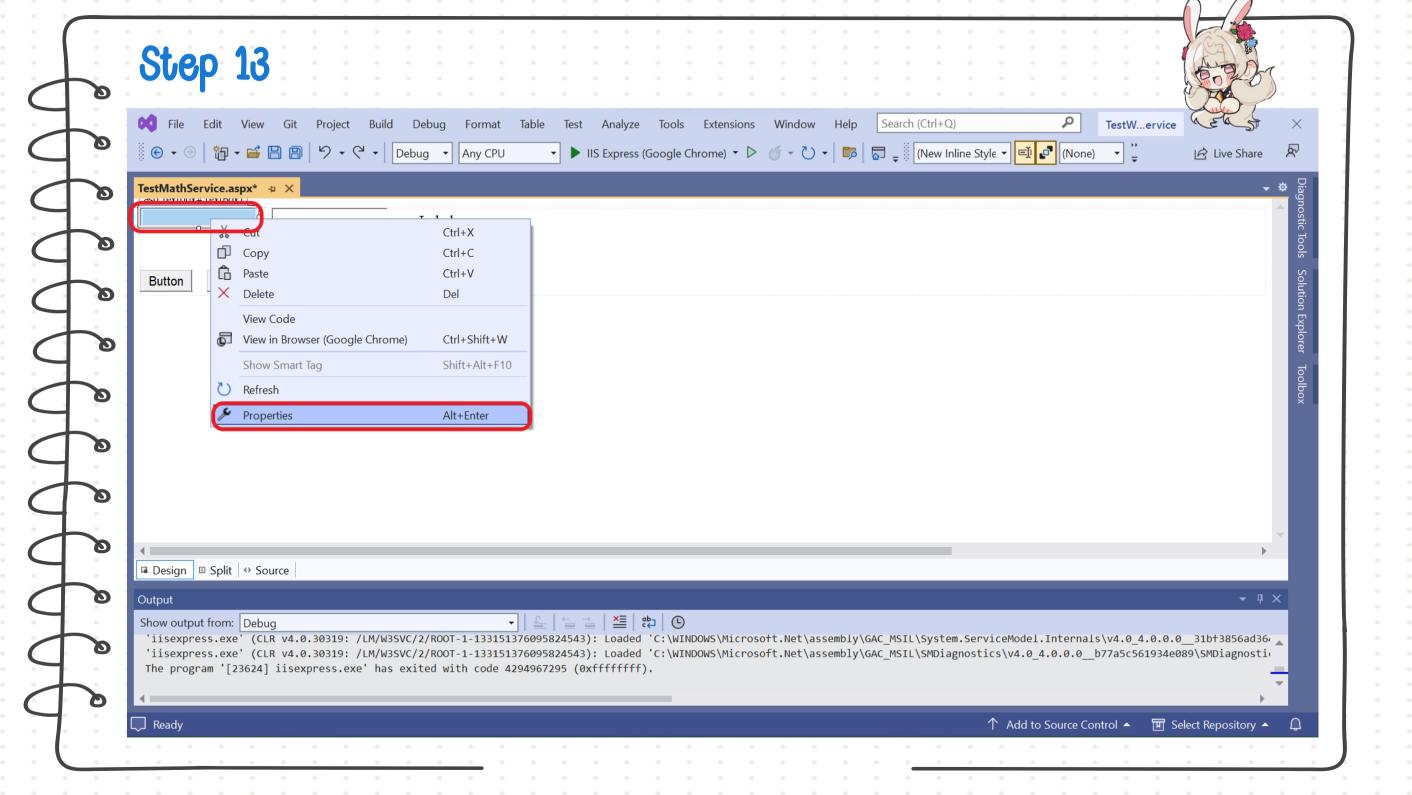


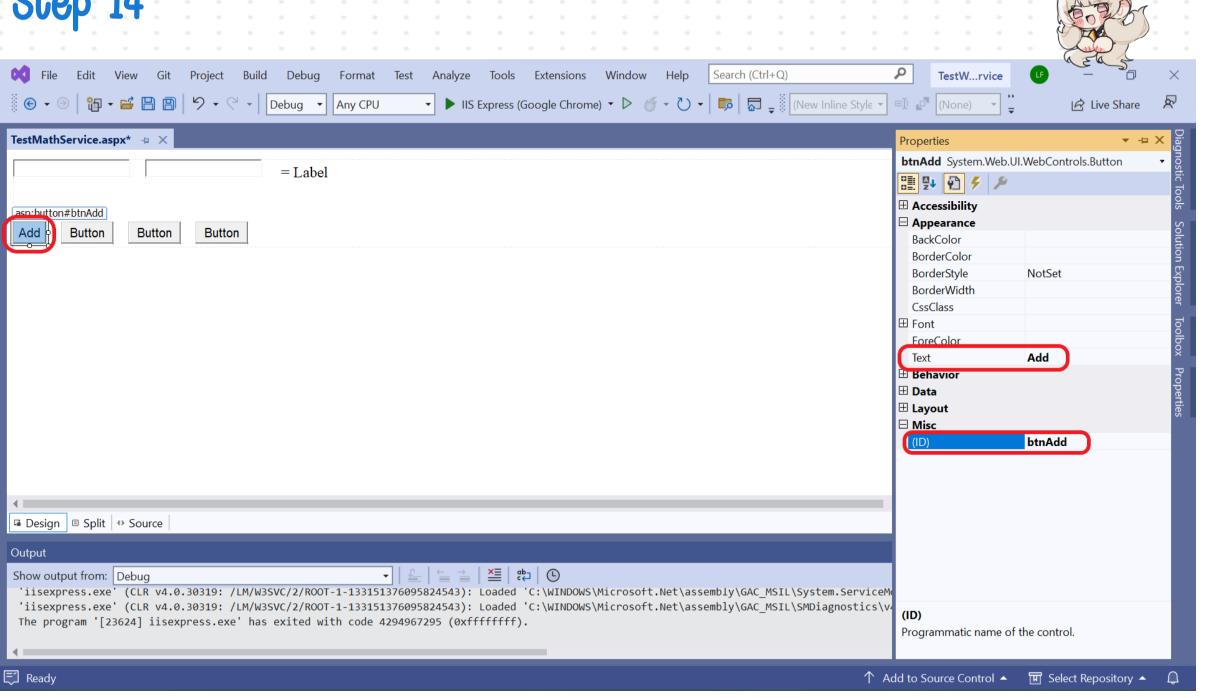
Service Reference Settings			?	X
Client				
Access level for generated classes:	Public			~
Allow generation of asynchronous o	perations			
<ul> <li>Generate task-based operations</li> </ul>				
Generate asynchronous operation	ns			
Data Type				
Always generate message contracts				
Collection type:	System.Array			~
Dictionary collection type:	System.Collections.Generic.Dic	tionary		~
Reuse types in referenced assemblies	5			
<ul> <li>Reuse types in all referenced asse</li> </ul>	emblies			
Reuse types in specified reference	ed assemblies:			
Microsoft CodeDom Pro	viders.DotNetCompilerPlatform			
☐ Microsoft.CSharp	viders.DottvetCompilerFlatfofff			
□				
☐ ☐ System				
☐ ☐ System.ComponentMod	el.DataAnnotations			
☐ ☐ Svstem.Configuration				
Compatibility				
Add a Web Reference instead of a Servi	ce Reference. This will generate	code based on .N	IET Frame	work
2.0 Web Services technology.				
Add Web Reference				
		ОК	Cance	

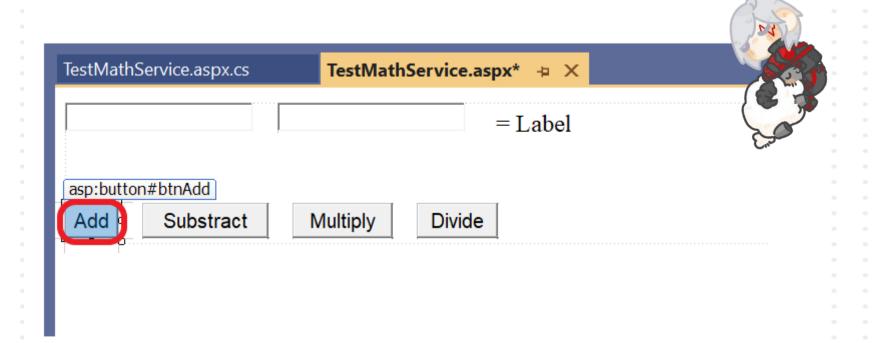








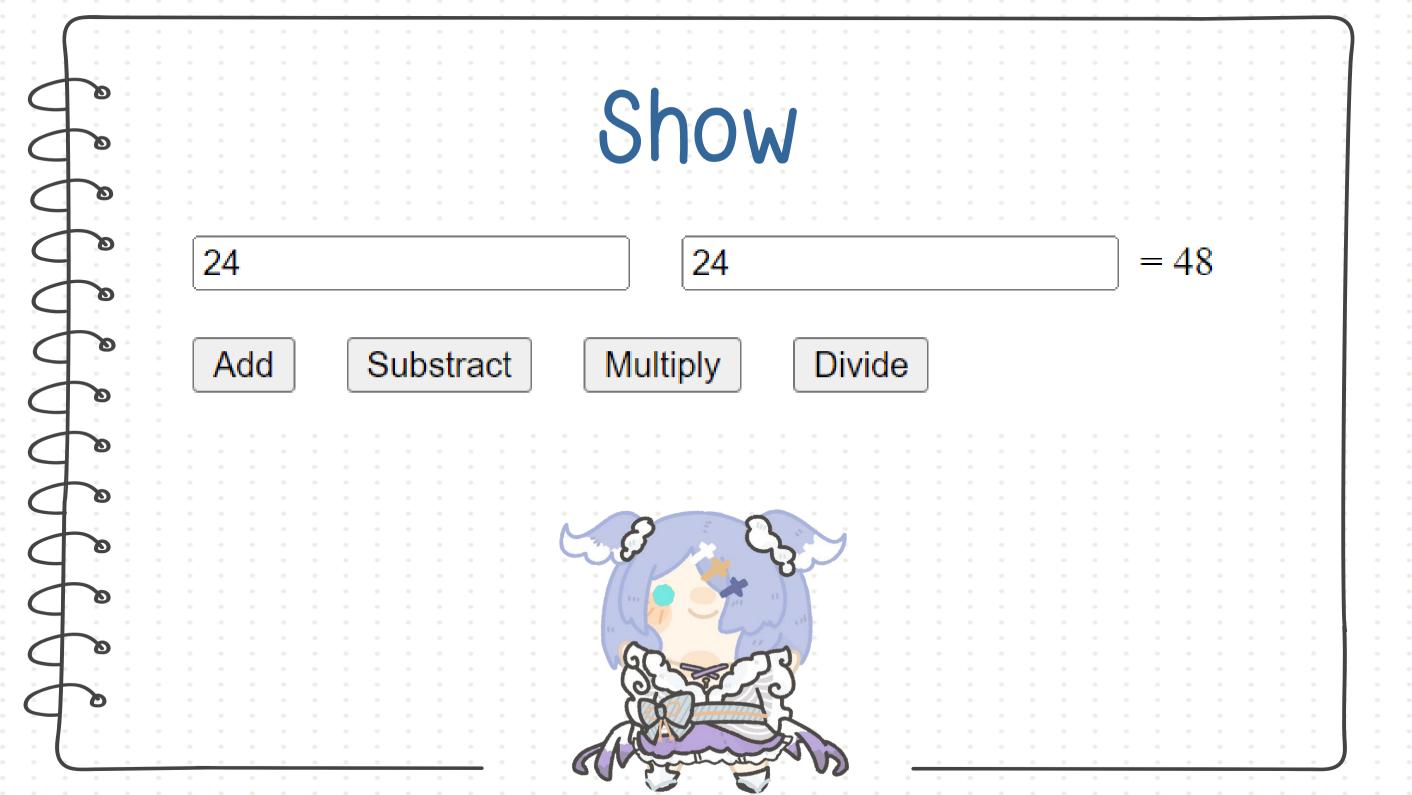




คลิก 2 ครั้ง เพื่อไปหน้าโค้ด

#### Step 16 Debua Test Analyze Tools Extensions Window Help I Live Share TestMathService.aspx.cs → X TestMathService.aspx\* TestWebService: Overview ▼ ❖ Solution Explorer **→** ▼ TestWebService.TestMathService ▼ StnAdd Click(object sender, EventArgs e) TestWebService Search Solution Explorer (Ctrl+;) protected void Page\_Load(object sender, EventArgs e) 12 Solution 'TestWebService' (1 o ^ 13 **▲** TestWebService 1Д 15 Connected Services 16 ▲ Properties protected void btnAdd\_Click(object sender, EventArgs e) 17 18 C# AssemblyInfo.cs localhost.MathService myMathService = new localhost.MathService(); 19 ▶ \$\$ Settings.settings double a = Convert.ToDouble(txtFirst.Text); 20 21 double b = Convert.ToDouble(txtSecond.Text); ▶ ₽₽ References double result = myMathService.Add(a, b); 228 ■ Web References lblResult.Text = Convert.ToString(result); 23 localhost 24 25 26 Solution Explorer Git Changes **Properties ∛** ▼ Ln: 22 Ch: 33 SPC CRLF No issues found Output **→** | <u>←</u> <u>→</u> | ×<u>=</u> | <del>⇔</del> | ⊕ Show output from: ■ Select Repository Item(s) Saved ↑ Add to Source Control ▲

```
protected void btnMul Click(object sender, EventArgs e)
 protected void btnAdd Click1(object sender. EventArgs e)
                                                                    localhost.MathService myMathService = new
      localhost.MathService myMathService = new
                                                             localhost.MathService();
localhost.MathService();
                                                                    double a = Convert.ToDouble(txtFirst.Text);
      double q = Convert.ToDouble(txtFirst.Text);
                                                                    double b = Convert.ToDouble(txtSecond.Text);
       double b = Convert.ToDouble(txtSecond.
                                                                    double result = myMathService.Multiply(a, b);
Text);
                                                                    lblResult.Text = Convert.ToString(result);
      double result = myMathService.Add(a,b);
      lblResult.Text = Convert.ToString(result);
                                                             protected void btnDiv_Click(object sender, EventArgs e)
protected void btnSub Click(object sender. EventArgs e)
                                                                    localhost.MathService myMathService = ne
                                                             localhost.MathService();
      localhost.MathService myMathService = new
                                                                    double a = Convert.ToDouble(txtFirst.Text);
localhost.MathService();
                                                                    double b = Convert.ToDouble(txtSecond.Text);
      double q = Convert.ToDouble(txtFirst.Text);
                                                                    double result = myMathService.Divide(a, b);
      double b = Convert.ToDouble(txtSecond.Text);
                                                                    lblResult.Text = Convert.ToString(result);
      double result = myMathService.Subtract(a, b);
      lblResult.Text = Convert.ToString(result);
```



# Ex. สร้าง web service แปลงอุณหภูมิแปลง

- 1. Celsius เป็น Fahrenheit
- 2. Celsius เป็น Kelvin
- 3. Fahrenheit เป็น Celsius
- 4. Fahrenheit เป็น Kelvin
- 5. Kelvin เป็น Celsius
- 6. Kelvin เป็น Fahrenheit

Web Service: Temperature

Web Page: TestTemp

[WebMethod] (ใส่ทุกครั้งห้ามลืม)



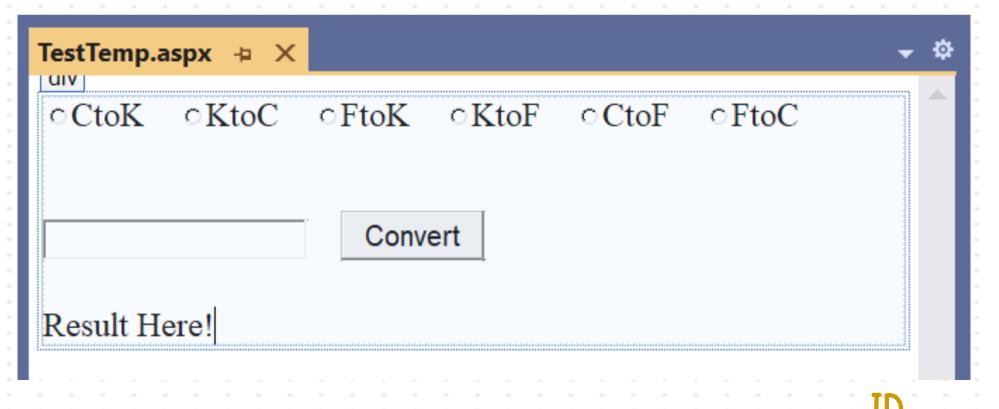
# [WebMethod] public double CtoK(double c) double k = c + 273.15; return k; [WebMethod] public double KtoC(double k) double c = k - 273.15; return c;

```
[WebMethod]
public double FtoK(double f)
          double k = ((f - 32) * 5 / 9) + 273.15;
          return k;
[WebMethod]
public double KtoF(double k)
          double f = ((k - 273.15) * 9 / 5) + 32;
          return f;
```

```
[WebMethod]
public double FtoC(double f)
{
     double c = (f - 32) * 5 / 9;
     return c;
}
```



# Step 2: Web Page (Design)





Radio Button ชื่อเดียวกับ text Text Box ชื่อ txt1 Label ชื่อ Iblresult

```
protected void btnConvert_Click(object sender, EventArgs e)
         if (Ctok.Checked == true)
            lblresult.Text = Convert.ToString((Convert.ToInt16(txt1.Text) + 273.15));
         else if (KtoC.Checked == true)
            lblresult.Text = Convert.ToString((Convert.ToInt16(txt1.Text) - 273.15));
```



```
else if (CtoF.Checked == true)
{
    lblresult.Text = Convert.ToString((Convert.ToInt16(txt1.Text) * 9 / 5) + 32);
}
else if (FtoC.Checked == true)
{
    lblresult.Text = Convert.ToString((Convert.ToInt16(txt1.Text) - 32) * 5 / 9);
}
```





# Ex. สร้าง web service คำนาณ Quadratic

$$4x^2 + 6x + 2 = 0 --- easy$$

$$4x^2 + 8x + 2 = 0$$
 ---???

(x+1)=0

 $x_2 = -1$ 

$$4x^2 + 6x + 2 = 0$$
 --- easy

$$(4x+2)(x+1) = 0$$

$$(4x+2)=0$$

$$x1 = -0.5$$

สมการ Quadratic (
$$ax2 + bx + c = 0$$
)

$$dx^2 + bx + c = 0$$

$$x1,x2 = -b + root(b2 - 4ac)$$

Web Service: Quadratic

Web Page: TestQuadratic

[WebMethod] (ใส่ทุกครั้งห้ามลืม)



```
[WebMethod]
      public double X1(double a, double b, double c)
          double x1 = (-b + Math.Sqrt((b*b) - (4 * a * c))) / (2 * a);
          return x1;
 [WebMethod]
      public double X2(double a, double b, double c)
          double x2 = (-b - Math.Sqrt((b * b) - (4 * a * c))) / (2 * a);
          return x2;
```

# Step 2: Web Page (Design)

TestQuadratic.aspx.cs	TestQuadratic.aspx +	X
a - 1		
b =		
c = 1		
X1		
NO.		
X2		
Compute		

Text Box ชื่อ txtA, txtB. txtC

Label ชื่อ lblX1, lblX2

Button ชื่อ btnCompute

```
protected void btnCompute_Click(object sender, EventArgs e)
        localhost.Quadratic myQuad = new localhost.Quadratic();
        double a = Convert.ToDouble(txtA.Text);
         double b = Convert.ToDouble(txtB.Text);
        double c = Convert.ToDouble(txtC.Text);
        double x1 = myQuad.X1(a, b, c);
        double x2 = myQuad.X2(a, b, c);
        IbIX1.Text = Convert.ToString(x1);
        IbIX2.Text = Convert.ToString(x2);
```

# Show

a = [

b =

c =

X1

X2

Compute



# Ex. agns web page: public web services

**Step 1** : ไปที่เว็บไซต์ https://www.rd.go.th/42546.html

Step 2 : คลิก CheckTINPINService

Step 3: จากคำว่า URL of JSON และ copy link

URL of JSON: https://rdws.rd.go.th/jsonRD/checktinpinservice.asmx

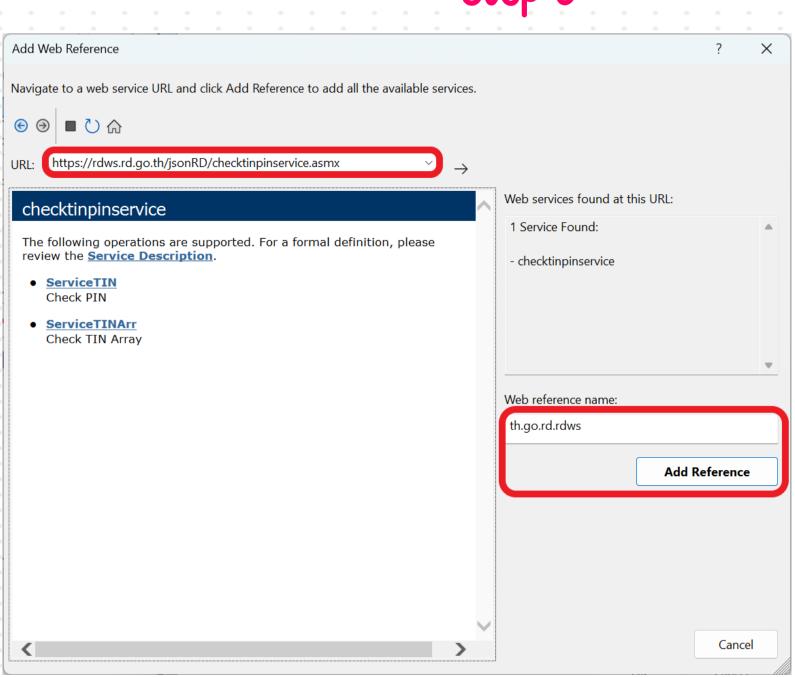
Step 4: เช็ค link ที่ copy ว่าเข้าได้ใหม

Step 5 : เอา link ไปว่างที่ add web reference

Web Page: TINPINService

[WebMethod] (ใส่ทุกครั้งห้ามลืม)







# Step 7: Web Page (Design)

CheckTINPINService.aspx.cs	CheckTINPINService.aspx	Þ	X	•
- 1				
$\mathbf{u}_{\mathbf{d}} = \mathbf{v}$				
Result Here!				
Check Service TIN				

ID

Text Box ชื่อ txtCheckServiceTIN1 Label ชื่อ lblResult Button ชื่อ btnCheckServiceTIN1



```
protected void btnCheckServiceTIN1_Click(object sender,
EventArgs e)
         th.go.rd.rdws.checktinpinservice myService = new
th.go.rd.rdws.checktinpinservice();
         String id = txtCheckServiceTIN1.Text;
         String temp =
Convert.ToString(myService.ServiceTIN("anonymous", "anonymous"
id));
         IblResult.Text = temp;
```

# Show

id =

Result Here!

Check Service TIN

