

A decorative graphic on the right side of the page features three overlapping circles of varying sizes, each composed of concentric blue rings. Two thin blue lines intersect at the top left and extend diagonally across the page, framing the circles.

Calculator Web Service

A WCF Implementation

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Contents

Introduction	3
Technology.....	3
Functions available	4
Snippets	5
Publishing Web Service.....	7

Introduction

Calculator Web service has been created using the Windows Communication Foundation (WCF) version.NET4.5.

Path to Create a WCF project:

1. Open Visual Studio
2. Click File
3. Click New
4. Click Project
5. Select WCF Service Application from list of available projects for Visual C#
6. Give Name for Project Below

This is how you create the WCF project.

(For More information about how to create web service please follow the link)

<http://vhost3.cs.rit.edu/application/documetations/How%20to%20create%20web%20service.pdf>

Technology

No external APIs were used for creating this web service.

Functions available

- **add**

This function provides the addition of two numbers.

Input parameters: value1 in string
value2 in string

Output: addition of two numbers.

- **subtract**

This function provides the subtraction of two numbers.

Input parameters: value1 in string
value2 in string

Output: subtraction of two numbers.

- **multiplication**

This function provides the multiplication of two numbers.

Input parameters: value1 in string
value2 in string

Output: multiplication of two numbers.

- **division**

This function provides the division of two numbers.

Input parameters: value1 in string
value2 in string

Output: division of two numbers.

Snippets

Function add

```
/**
 *This method performs the addition of two values
 *
 * @param    value1    it takes double
 * @param    value2    it takes double
 *
 * @return    It return the addition of two number in double
 *
 */

public double add(double value1, double value2)
{
    return value1 + value2;
}
```

Function subtraction

```
/**
 *This method performs the subtraction of tow values
 *
 * @param    value1    it takes double
 * @param    value2    it takes double
 *
 * @return    It return the subtraction of two number in double
 */

public double subtract(double value1, double value2)
{
    return value1 - value2;
}
```

Function multiplication

```
/**
 *This method performs the multiplication of two values
 *
 * @param    value1    it takes double
 * @param    value2    it takes double
 *
 * @return    It return the multiplication of two number in double
 */

public double multiple(double value1, double value2)
{
    return value1 * value2;
}
```

Function division

```
/**
 *This method performs the division of two values
 *
 * @param    value1    it takes double
 * @param    value2    it takes double
 *
 * @return    It return the division of two number in double
 *
 */

public double divide(double value1, double value2)
{
    return value1 / value2;
}
```

Publishing Web Service

Please click on following link and follow the instruction

<http://vhost3.cs.rit.edu/application/documetations/Publish%20web%20service%20to%20IIS.pdf>