WebService

* web applications that can interact with other web applications for exchanging data.
* piece of software that makes itself available over the internet .
* For example, a client invokes a web service by sending an XML message, then waits for a corresponding XML response.

A web service enables communication among various applications by using open standards such as HTML, XML, WSDL, and SOAP. A web service takes the help of −

* XML to tag the data
* SOAP to transfer a message
* WSDL to describe the availability of service.

Webservice

File->new project -> asp.net web application -> empty

Go to Solution Explorer -> "Add new item" -> Web Service and name it.

In .cs file

1. [WebMethod]
2. **public** **int** Add(**int** x, **int** y)
3. {
4. **return** x + y;
5. }
6. [WebMethod]
7. **public** **int** Sub(**int** x, **int** y)
8. {
9. **return** x - y;
10. }
11. [WebMethod]
12. **public** **int** Mul(**int** x, **int** y)
13. {
14. **return** x \* y;
15. }
16. [WebMethod]
17. **public** **int** Div(**int** x, **int** y)
18. {
19. **return** x / y;
20. }

You can run your application to know whether the code has errors or not.

Create a dot net client application

Go to Solution Explorer then select the solution then click on "Service Reference" then within the URL type the service reference path.

Click on Advance - > add webreference

Paste url of webservice -> go -> rename localhost to myservice - > add reference

Add the reference in code behind

using MyNewWebsite.MyService;

then create the object of that service and can call the functions.



