

```
1 //using is a directive
2 //System is a name space
3 //name space is a collection of features that our needs to run
4 using System;
5 using System.Data.SqlClient;
6 using System.Linq;
7 using System.Data;
8 //public means accessible anywhere
9 //partial means this class is split over multiple files
10 //class is a keyword and think of it as the outermost level of grouping
11 //:System.Web.UI.Page means our page inherits the features of a Page
12 public partial class _Default : System.Web.UI.Page
13 {
14
15     protected void Button1_Click(object sender, EventArgs e)
16     {
17         //make connection string
18         string connString = @"Data Source=DESKTOP-4L6NSGO\SQLEXPRESS;Initial          ➤
19             Catalog=People;Integrated Security=True;Connect          ➤
20             Timeout=15;Encrypt=False;TrustServerCertificate=False;ApplicationIntent=ReadWrite;Mu          ➤
21             ltiSubnetFailover=False";
22         //make connection object
23         using (SqlConnection conn = new SqlConnection(connString))
24         {
25             //make sql command
26             SqlCommand command = new SqlCommand("select * from dbo.ExperimentValues", conn);
27             //make adapter object and pass in the command
28             SqlDataAdapter adapter = new SqlDataAdapter(command); //make adapter
29             //make table
30             DataTable dt = new DataTable();
31             adapter.Fill(dt); //fill table with adapter
32             //lines 30 - 31 use linq to sum each column
33             var summedXValues = dt.AsEnumerable().Sum(row => row.Field<decimal>(1));
34             var summedYValues = dt.AsEnumerable().Sum(row => row.Field<decimal>(2));
35             //lines 33-34 display the results in the web page
36             sampLabel.Text = $"Sum of y values={summedYValues}";
37             sampLabel.Text += "<br>Sum of x values={summedXValues}";
38         }
39     }
40 }
```