```
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.Xml.Linq;
6  using System.Linq;
7  //public means accessible anywhere
8  //partial means this class is split over multiple files
9  //class is a keyword and think of it as the outermost level of grouping
10 //:System.Web.UI.Page means our page inherits the features of a Page
11 public partial class _Default : System.Web.UI.Page
12 {
13     protected void Button1_Click(object sender, EventArgs e)
14     {
15         sampLabel.Text = ""; //clear label on every button click so stuff does not accumulate
16         //create a nice XML tree structure for searching: store is the root, inside that is
             shoes,
17         //and then under shoes are three different brands
18         XElement store = new XElement("store",
19                              new XElement("shoes",
20                                   new XElement("brand","Nike",new XAttribute("price","65")),
21                                   new XElement("brand", "Stacy Adams", new XAttribute("price",
                                "120")),
22                                   new XElement("brand", "Florsheim", new XAttribute("price",
                               "90"))));
23
24         store.Save(@"c:\data\storefile.xml");//save file to drive to confirm it looks like
             healthy XML
25
26         //search down to the level of the price attribute, and compare that value against the
27         //value entered in the search box by the user
28         var shoeSearch = from shoes in store.Descendants("shoes").Descendants("brand")
29                          where (decimal)shoes.Attribute("price") > decimal.Parse
                           (TextBox1.Text)
30                          select shoes;
31
32         //display all the shoe brands, and the prices
33         foreach(XElement shoeBrand in shoeSearch)
34         {
35             sampLabel.Text += $"<br>Brand:{shoeBrand}<br>Price:{(decimal)shoeBrand.Attribute
                 ("price"):C}";
36         }
37     }
38 }
39
40
41
42
```