36

```
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.Drawing;
 6 //public means accessible anywhere
 7 //partial means this class is split over multiple files
 8 //class is a keyword and think of it as the outermost level of grouping
 9 //:System.Web.UI.Page means our page inherits the features of a Page
10 public partial class _Default : System.Web.UI.Page
11 {
       protected void Button1_Click(object sender, EventArgs e)
12
13
       {
           Bitmap image = new Bitmap(@"c:\data\lessonimage.bmp");
14
           int x, y;//to get each pixel's location
15
16
           for(x=0;x<image.Width;x++) //controls moving horizontally</pre>
17
           {
               for(y=0;y<image.Height;y++) //controls moving vertically</pre>
18
19
                    Color pixelColor = image.GetPixel(x, y); //get each pixels's color
20
21
                    Color newColor = Color.FromArgb(pixelColor.B, pixelColor.R, pixelColor.G);//
                      make a new color
22
                    image.SetPixel(x, y, newColor);//set new color
23
               }
24
           }
25
           //line 26 converts picture to array of bytes
           byte[] picBytes =(byte[])new ImageConverter().ConvertTo(image, typeof(byte[]));
26
           //line 28 converts array of bytes to a certain kind of string
27
           string baseString = Convert.ToBase64String(picBytes);
28
           //line 30 sets the image URL in a format that allows the image to be displayed in a
29
             web page
           Image1.ImageUrl = "data:image/png;base64," + baseString;
30
31
       }
32 }
33
34
35
```