

## Language Assignment #5: C#

**Issued:** Thursday, April 18

**Due:** Tuesday, April 30

### Purpose

This assignment asks you to begin using an object-oriented language named C#, which is part of the Microsoft .NET framework.

### Documentation

C# lecture slides are at:

```
1 ~buff/classes/354/pub/slides/slides-csharp.pdf
```

C# is briefly described throughout our textbook.

Thorough documentation can be found at:

```
1 http://zetcode.com/lang/csharp
2 http://zetcode.com/gui/csharpwinforms
3 http://msdn.microsoft.com/en-us/library/
4 aa288436(v=vs.71).aspx
```

The onyx cluster has a C# compiler and executor, named Mono, the documentation of which can be found at:

```
1 http://www.mono-project.com/docs/about-mono/
2 languages/csharp/
```

and demonstrated by:

```
1 ~buff/classes/354/pub/sum/csharp
```

If you want to install C# on a computer running Microsoft Windows, you can download it for free at:

```
1 https://www.visualstudio.com/vs/
```

## Assignment

Port the Java program at:

```
1 ~buff/classes/354/pub/la5
```

to C#, using one of the toolsets listed above.

If you are using Linux and Mono, you'll want to compile and execute like this:

```
1 mcs -r:System.Windows.Forms.dll \  
2     -r:System.Drawing.dll \  
3     LightSwitch.cs \  
4     BinaryCounter.cs \  
5     ToggleButton.cs \  
6 \  
7 mono LightSwitch.exe
```

Also, describe your porting experience, and compare the languages, in a file named **README**