Variables

The maximum and minimum values that can be stored in an **Integer** variable are –32768 and +32767. Any larger positive or negative integer values must be stored in a different variable type called **Long**. There are other variable types as well which are used to store decimals, very large or small numbers, dates, currency and text. These may be used and explained in greater depth in later projects.

Methods

Methods are like properties, except that they can only be used in code and perform a function, such as adding a value to a listbox.

This is how information from a textbox named `txtNewName` is added to a listbox named `lstNames`.

```vba
lstNames.AddItem txtNewName
```

Notice how there is no **equals** sign, but merely a space after the method **AddItem**.

To clear all items in a listbox, the following method is used.

```vba
lstNames.Clear
```

Questions

1. In the program ‘Number Game 2’ which new object was used?
2. List some of the different properties of this object?
3. How should this object be named?
4. Write code to add the contents of a textbox named ‘txtNewName’ to a listbox named ‘lstNames’.
5. Write code to hide or display a label named ‘lblMessage’ depending on whether it is visible or not.
6. Write code to place a random number between 1 and 10000 in a variable named ‘RandomNum1’.
7. Why couldn’t the program be changed to accommodate random numbers up to 100 000 in its present form?
8. What change would have to be made?
9. Write a variable declaration to store integer values of a person’s age.
10. Describe two differences between properties and methods.
11. Write code to clear a listbox named ‘lstNames’.
12. How is the focus set on an object? (Hint: check your code from this project)
13. What is the difference between the ‘Click’ and ‘DoubleClick’ event?
14. Why do you think a ‘DoubleClick’ event is used?

Extension Activity

1. Create a simple program to add names and addresses to 2 lists and then remove all the names. Use 3 command buttons, 2 text boxes and 2 list boxes. Use labels where necessary.
2. Add an extra command button to delete individual items from the list (use the `lstNames.RemoveItem` method). Make a note of any difficulties you have. When does it work and when does it not?