

C# Syntax

Output

The basic output is `Console.WriteLine()`, typing can be considerably reduced by typing `cw` then hitting `tab tab`.

F5 to run the program, F10 to step through

Basic Array

```
int [] myArray;  
myArray= new int [10];  
for (int x = 0; x < 10; x++)  
{  
    myArray[x] = x;  
    Console.WriteLine(myArray[x]);  
}
```

This is another way to run through an array

```
foreach (int n in myArray)  
{  
    Console.WriteLine(n);  
}
```

Initialise and fill the array in 1 line:

```
int []otherArray = { 7, 2, 3, 4, 676, 23, 78, 898, 2, 120 };
```

Strings

Strings act a little like arrays but are easier to set up and have some special methods useful for playing with words.

```
String word = "letters";  
word =word.Replace("e", "z");  
word = word.ToUpper();  
char[] let = word.ToCharArray();
```

Classes

A simple class

```
class Person
{
    // Field
    public string name;
    // Constructor
    public Person()
    {
        name = "unknown";
    }
    // Method
    public void SetName(string newName)
    {
        name = newName;
    }
    public String getName()
    {
        return name;
    }
}
```

Use of the class in code

```
Person myPerson;
myPerson = new Person();
myPerson.SetName("Bill");
Console.WriteLine(myPerson.getName());
```