## **Homework**

**Do:**

1. Microsoft “numbers in C#” tutorial <https://docs.microsoft.com/en-us/dotnet/csharp/tutorials/intro-to-csharp/numbers-in-csharp> tick

* The “Advance Reading” Section of the next chapter in this booklet “Variables and Data Types”
* Computing without Computers Chapter 2 "The Language Instinct"[http://www.dcs.qmul.ac.uk/%7Epc/research/education/puzzles/reading/cwcch2.pdf](http://www.dcs.qmul.ac.uk/%7Epc/research/education/puzzles/reading/cwcch4.pdf)

(also on the Computing SharePoint site, Introduction to Programming page)

**This will enable you to correct the errors in the following source code:**

using System;

namespace Circle

{

public class Program

{

static void Main(string[] args)

{

double radius;

double circumference;

Console.WriteLine("Program to calculate the circumference of a circle");

Console.WriteLine("Enter radius: ");

radius = Convert.ToDouble(Console.ReadLine());

circumference = radius \* 2 \* Math.PI;

Console.WriteLine("The circumference of the circle = " + circumference);

Console.ReadLine();

}

}

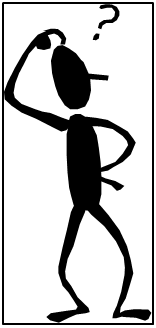
}

**You will need the corrected code in the next lesson**

## **Self Test: complete and bring to the next lesson**

1. What data type would you use to store the following:

|  |  |
| --- | --- |
| 1. Surname: string | string |
| 1. size of a file (in bytes): integer | integer |
| 1. telephone number: integer | integer |
| 1. area of a circle: real number | Real number |
| 1. whether a student owns a car (or not): boolean | boolean |



1. Write a C# statement to declare an integer called sum and initialise it to zero.

Int sum = 0;

1. Write a C# statement that adds the two integer variables digit and value and assigns the result to the variable total.

Int value1 = 1;

Int value2 = 1;

Int total = value1 + value2;