

CS150-01 Assignment 1

A Gradeschool Fraction Calculator

Date assigned: Friday, September 9, 2005

Date due: Friday, September 16, 2005

Points: 30 pts

The purpose of this assignment is to get you writing your first complete program with Visual Studio .NET. If you run into any problems with this assignment, it is important that you come and see me early so I can help. Also, it is very important for you to do this assignment on your own. Every assignment you will be doing from now on will require the techniques you learned in class and in the lab, so it's very important for you to get the hang of them.

Here is the problem that you are to solve

Young gradeschoolers often have trouble adding fractions and computing the decimal equivalent of a given fraction. You are to write a complete C++ program that will allow the gradeschooler the ability to enter any two fractions. As output, your program is to print the two fractions, their sum as a fraction, and the decimal equivalent of the resulting fraction. Here is exactly what your program is to output (asterisks and all) and how your program is to work:

```
*****
*                                     Fraction Calculator                               *
*****

Enter Fraction #1: 1/2

Enter Fraction #2: 2/3

1/2 + 2/3 = 7/6 which in decimal is 1.16667
```

To complete this assignment you must

1. Create a new C++ project in Visual Studio .NET. You should follow the same steps that you did during the lab to create the project. Name your project "01fractionPUNet". As an example, my project would be called "01fractionkhoj0332". It is vital that you name your project correctly!
2. Type the solution (fully documented/commented) to the problem into your project.
3. Remember to enter in your name as the author of the program.
4. Make sure that your program compiles and runs correctly. If you get any errors, double check that you typed everything correctly. Be aware that C++ is case-sensitive.
5. Once you are sure that the program works correctly it is time to submit your program. You do this by logging on to turing and placing your complete project folder in the CS150-01

drop folder. Make sure that you copy your program folder and don't move it. If you move it, then you will not have your own copy!

To receive full credit for this assignment, your project must be in the drop box by 1pm on the day that it is due. Anything later will be considered late. Further, you must bring a hard copy of your program to class and place it on the instructor's desk by 1pm.

Good luck! And remember, if you have any problems, come and see me straight away.