

# CS112 - Intro to Problem Solving and Programming Lab Assignment #1

## Summer 2004

The purpose of this assignment is to use a UNIX system to develop, compile, and execute a simple C++ program.

For this assignment, you are to write a program that prompts the user for the length and width of a rectangle, inputs values for the length and width, then computes the perimeter and area of the rectangle, and then determines the ratio of area to perimeter (i.e., perimeter/area). Finally, your program should output the length and width that were input, and then all of the calculated values.

Run your program once, with the values 14 and 25 for length and width, respectively. Then run your program with several other values of your own choice.

You should turn in a *script* file that contains a listing of your source code, evidence of correct compilation, and then results. For example, once you have fully debugged your program, you should do a sequence of UNIX commands similar to the following:

```
script ploutput
cat prog1.c
g++ prog1.c
./a.out
{program input/output will be here}
./a.out
{use a different set of input values for this run}
.
.
.
exit
```