**CS 1301 Principles of Programming I**

**Lab 3**

**What to hand in**

Complete the questions below. Submit the source code to BlazeView.

**Questions**

**Q1 (50 points): Write a program that reads a Celsius degree in double from the user, then converts it to Fahrenheit and displays the result. The formula for the conversion is as follows:**

**fahrenheit = (9 / 5) \* celsius + 32**

***//Sample Run***

***// Enter a degree in Celsius: 43***

***// 43 Celsius is 109.4 Fahrenheit***

**Q2 (50 points): Write a program that reads in the radius and length of a cylinder and computes volume using the following formulas:**

**area = radius \* radius \* π**

**volume = area \* length**

***//Sample Run***

***// Enter the radius and length of a cylinder: 5.5 12***

***// The area is 95.0330975***

***// The volume is 1140.39717***

**Grading Criteria**

1. 20%, present answers.
2. 20%, the programs are able to be compiled in jGRASP.
3. 20%, the programs are able to run.
4. 40%, the programs output the expected results.