

Course: CSC 115 (J)

Lab 01: Introduction and Review

Objectives

- Make sure your CSC account is activated.
- Sign in on the attendance sheet
- Review Java programming fundamentals
 - The first Java program.
 - Compiling, executing, etc.
 - Reviewing loops, conditional statements, arrays, and functions/methods.

Part I – Basic Java Programs

- Write, compile and run the standard "Hello World" program in Java.
- Write and compile a program that outputs your name.
- Write a program that combines two Strings and one number together to form a sentence

Part II – Printing, Loops

- Write a for loop using only the loop index to print out 1 through 10
- Write a for loop using only the loop index to print out 0 through 9

Part III – Arrays

- Write a program that initializes an array with numbers 1 through 10
 - Iterate through this array by printing out every element of the array
 - Print out every element which is divisible by 3 or 5.
 - Iterate through this array printing out every second number by modifying the iterator
- Write a program with two arrays, in the first array initialize it with numbers 1 through 10, the second array should be empty. Copy every element of the first array containing 1 through 10 into the empty second array but in reverse order (i.e. 10 through 1 descending)

Part IV – Methods

Write a method that takes an integer and an array of numbers as parameters and return the number of items in the array that are multiple of the integer.

How to:

Set your path in Java:

What is a path? A path can merely be considered the series of folders that must be opened to find a file, folder or program.

In the case of Java, the necessary Java programs can be found in the Java bin directory (in most cases). The path to my Java bin directory is located at **C:\Program Files\Java\jdk1.6.0_23\bin**

If you are using Linux, use command:

```
export PATH = $PATH:/somefolder/anotherfolder/bin
```

On Windows:

1. Right click on my computer
2. Select Properties
3. Advanced System Settings (Windows 7) or Advanced tab
4. Environmental Variables
5. Locate the PATH variable
6. Select Edit
7. Add the path: C:\somefolder\anotherfolder\bin to the end (make sure a ; is before the path you are adding, the ; separates each additional path)

Get Additional Help:

1. For help with assignments and lab material you can email us at: csc115l@csc.uvic.ca
We will both be checking this email account regularly.

Note: Lab attendance is mandatory.

2. The Consultants in the Consultants office are well versed in many of the languages and technology used/faced in Computer Science at the University of Victoria. Consultants provide direct support and can help you work out issues or problems with your programs or assignments.
3. Make effective use of the TA office hours (Friday 10:00 am – 12:00 pm) in ECS 253. One of the TAs will be regularly attending these office hours to help you work out the issues you may face with your programs and assignments.