# Skill Assignment 1

This is an individual skill assignment. You may receive help from other class mates, but you may NOT copy their work. Copied work will be considered plagiarism and dealt with according to the syllabus and university policy.

**Objective:** For this skill assignment, you will demonstrate that you can properly create and populate an ArrayList collection. You will define and use a value returning method that will instantiate a Scanner for user interaction and properly collect an integer value. This value will be returned from the method and properly appended to the ArrayList. You will collect 5 numbers from the user, then you will output all values stored in the ArrayList using an enhanced for loop. This will include following proper naming, formatting and style conventions as well as using several functions and classes in the Java standard library.

**Description:** Proper internal storage of user data is crucial for any program. Being able to manipulate those values after collection is therefore another important skill for a programmer. However, modern programming conventions require decomposing tasks into appropriate methods. This program will consist of at least two properly defined methods passing and returning values as necessary between them to fulfill the requirements.

**Assignment:**

- Create a command-line Java program that performs the following:
  - Asks the user for an integer value
    - This logic must be placed into a value returning method
  - Store that value into a proper collection
  - Repeats the prior two tasks 5 times
  - Uses an enhanced for loop to output the 5 collected values in a properly formatted string to the system console similar to that shown below in Table 1
    - ***Helpful hint:*** you will need 2 methods (main & your own data entry method) ***at a minimum***
    - ***Helpful hint:*** do not close the Scanner object you create even though Eclipse warns you about a resource leak!

- Upload your .JAVA code file to the appropriate Blackboard assignment

```
Please enter a whole number (e.g. 56 or 88):
5
Please enter a whole number (e.g. 56 or 88):
10
Please enter a whole number (e.g. 56 or 88):
15
Please enter a whole number (e.g. 56 or 88):
20
Please enter a whole number (e.g. 56 or 88):
25
You entered the following numbers: 5 10 15 20 25
```

Table 1 – Example Input/Output