Programming assignment 1

Objective:

To successfully be able to use the programming basics, you have learned from previous lectures and labs in this class up to this point, in writing a code (program) that runs with no errors and gives the correct output.

Skills needed:

- Knowledge of programming basics from previous lectures and labs in this class up to this point.
- Hands on Eclipse.

Task:

1. Given a person's year of birth, the Birthday Wizard can compute the year in which the person's nth birthday will occur or has occurred. Write statements that can be used in a Java program to perform this computation for the Birthday Wizard.

   Example:

   Here is an example of what your output could look like:

   

2. Create a Program that:
   - Prompts the user for 5 Grades (0-100)
   - Calculates the average of those grades.
   - Prints the average grade to two decimal places.
   - Then it should determine the letter grade for that average.
   - The letter grade is based on the following grade range:
     A: 90-100% B: 80-89% C: 70-79% D: 60-69% F: otherwise

   Example:

   Here is an example of what your output could look like:

   My name is YourName
   Program 2: Calculating the average of grades.

   Enter 5 Grades (0-100):
   97
   94
   78
   84
   66

   

   The average of the 5 grades is 83.80
   Letter grade is: B

   

Your programs and all further programs should have **program description header** that goes at the top of the file which gives information about the programmer and program.

```
////
// Name: Bob Programmer
// Section: A, B, or S
// Program Name: Hello World
//
// Description: A brief description of the program.  What does the
//  program do (not how it does it: for example, it uses loops)?  Does
//  the program get input?  What kind?  What information is output
//  from the program and to where (screen or file)
////

import…
```

Run your program three times with different input numbers. For each time that you run your program take a screenshot of your program's output to the bottom of your code. This will be needed in your report. In order to know how to write up your report, take a look at the attached word document and follow the instructions.

Grading Criteria:

I will be looking at the following things: **(Total Points: 100)**

- Do you have a program description header (in your code) as shown in the above example? **(10 pts)**
- Did you get the correct output? **(40 pts)**
- Did you choose good variable names? **(20 pts)**
- Did you indent the code properly? **(10 pts)**
- Is your output easy to read? **(5 pts)**
- Did you attach the report with the output from the test runs in your report? **(15 pts)**