CSCI 1011 – Lab 2

Learning Outcomes

- Use input, output, and assignment statements to write a Java program.
- Compute values using floating point numbers.
- Use named constants to represent values that do not change.
- Revise an existing program to modify its behavior.

Required Reading

Savitch - Section 2.1

Instructions

- 1. Start NetBeans.
- 2. Create a new project called Lab2 with a main class called YournameLab2 with your last name.
- 3. Write the following program in the editor window making sure to use your name instead of Bram Stoker:

```
package csci1011.lab2;
import java.util.Scanner;
/**
* CSCI 1011 Lab 2
* @author Bram Stoker
* A program that calculates interest on a deposit
*/
public class BramStokerLab2 {
    /**
    * @param args the command line arguments
    */
    public static void main(String[] args) {
       Scanner keyboard = new Scanner(System.in);
       System.out.println("Welcome to Bram Stoker's interest calculator.");
       System.out.println();
       System.out.println("Please enter your initial deposit amount:");
       double balance = keyboard.nextDouble();
```

- 4. Run the program and test it with sample input. Do this several times.
- 5. Modify the program so it uses a named constant in place of 0.049.
- 6. Run the program and test it to see if it gives the same values.
- 7. Modify the interest rate to 0.059.
- 8. Run the program again and test it to see the values it gives have changed.
- 9. Did you change the output so it now says 5.9%? If not make that change and run the program again.
- 10. Since it would be easier not to have to change the program in two places, declare a new double variable called percent and set its value to 100 times the interest rate.
- 11. Modify your output statment so it uses the percent variable instead of 5.9.
- 12. Run the program again and test it to make sure it still works properly.
- 13. Add some additional statements to compute what the balance will be after a second year of earning interest and display this result along with the original result.
- 14. Run the program again and test it to make sure that the new code works.
- Upload the file YournameLab2.java to the drop box folder labeled Lab Assignment
 2.