Lab 4 - Exam 1 Prep

Instructions

Log into cs.bridgewater.edu. Change your working directory to the c**sci101/labs** directory that you created inside your Git repository. Create a directory named **lab4** and change your working directory to **csci101/labs/lab4**.

Create a file named **Lab4.java.** Write a complete program that satisfies the program requirements specified below.

1. Print to the screen the string of characters **Lab 4.**

2. Write a statement that creates a Scanner that can be used to read data from the keyboard.

3. Ask the user to enter the name of an actor. Read the value into a variable named **actor.** Allow for multi-word names, like *James Bond*.

4. Declare a variable named **initial** and set it to the first character of the string held in the variable named **actor**.

5. Ask the user to enter 3 decimal values. Read the value into variables named **number1**, **number2**, and **number3.**

6. Declare a variable named **triple** and set **triple** to **-1** if the value in the variable named **number1** is **0**, otherwise set **triple** to 3 times the value in the variable named **number1**.

7. Using conditional statements and the values stored in the variables named **number1**, **number2**, and **number3**, determine the largest value of the three and store the result in a variable named **largestNumber**. Print to the screen **largest number:** followed by the value stored in the variable named **largestNumber**.

8. Write a segment of code that uses a while-loop to print to the screen, on a single line with spaces between them, the numbers between 10 and 100 (inclusively) *from largest to smallest*.

9. Write a segment of code that uses a for-loop to print to the screen, on a single line with spaces between them, the numbers between 10 and 100 (inclusively) *from smallest to largest*.

10. Write a segment of code that repeatedly asks the user to enter an integer. Count the number of integers that the user enters that are multiples of 5 and store the result in a variable named **count**. When the user enters **0**, exit the loop and then print **count:** followed by the value in the variable named **count**.