CSCI-101 Programming I

Lab 6

Log into cs.bridgewater.edu.

Change your working directory to your csci101/labs directory inside your Github repository.

Make a directory named lab6. Change your working directory to lab6.

Create a program in a file named **Lab6.java** in your **lab6** directory. Include in the program the statements necessary to achieve the following.

- 1. Declare a **Scanner** that can be used to read data from the keyboard.
- 2. Ask the user to enter 2 positive integers and read them into variables named **num1** and **num2**.
- 3. If **num1** holds a value less then **0** then set **num1** to **0** and if **num2** holds a value less then **0** then set **num2** to **0**
- 4. If the value in **num2** is less than the value in **num1**, swap the values in the variables.
- 5. Print to the screen "numbers are equal" if the values in num1 and num2 are equal; otherwise print "not equal".
- 6. Print to the screen "7 or 11" if num2 holds the value 7 or holds the value 11.
- 7. Use a **switch** statement to print to the console "**num1** is **one**" if the value in **num1** is **1**, print "**num1** is **two**" if the value in **num1** is **2**, and otherwise print "**num1** is **other**".
- 8. Declare a variable named **greaterThan10** and use the **?:** operator to initialize the variable to **true** if the value in **num1** is greater than **10**; otherwise initialize the variable to **false**.
- 9. Print "gt 10" if the value of the variable greaterThan10 is true; otherwise print "not gt 10".
- 10. Use a while-loop to compute the sum of the values between num1 and num2 (inclusively) and then print "Sum: " followed by the sum of the values between num1 and num2.
- 11. Ask the user to enter the names of two cities and read them into variables named **city1** and **city2**.

- 12. Print to the screen "cities are equal" if the names of the cities in city1 and city2 are the same; otherwise print "cities not equal".
- 13. Ask the user to enter their middle initial and read the value into a variable whose type is **char** and whose name is **middleInitial**.
- 14. Print to the console "Got an E" if the value in middleInitial is the letter E; otherwise print "Not an E".
- 15. Use a **do-while** loop to continuously ask the user to enter an integer. When the user enters **0**, exit from the loop. After the user enters **0**, print to the screen "**Odd count:**" followed by the number of values entered by the user that were odd.
- 16. Use a for-loop to print to the screen the even numbers between num1 and num2.

When finished, push your Lab6.java file to GitHub.