CSCI-101 Programming I

Lab4e

INSTRUCTIONS

Inside your lab4 directory create a file named Lab4e.java.

Open up a browser and search "Java 19 Integer" and open the <u>docs.oracle.com</u> documentation for the **Integer** class. Use the documentation to solve the problems below.

Inside the **Lab4e.java** file write a program that does the following:

Print to the screen the largest value that an integer can hold using Integer.MAX VALUE.

Print to the screen the smallest value that an integer can hold using Integer.MIN_VALUE.

Print to the screen the number of bytes used to represent an integer using Integer.BYTES.

Ask the user to enter in an integer.

Declare a String named intString.

Read the value from the keyboard as a **String** using the Scanner's **next()** method and store the string in the variable **intString**.

Declare an int named intValue.

Convert intString to an int using Integer.parseInt() and store the int in intValue.

Print the value in **intString** to the screen.

In your browser, search "Java 19 Character" and open the <u>docs.oracle.com</u> documentation for the **Character** class. Use the documentation to solve the problems below.

Print to the screen the number of bytes used to represent a char using **Character.BYTES**.

Ask the user to enter a character.

Read the character from the keyboard and store the character in a variable named **myChar**.

Use **Character.isDigit()** to determine if the character is a digit. If so, print "char is a digit"; otherwise print "char is not a digit".

Declare an integer named intValue.

Use **Character.getNumericValue()** to get the integer value of the character in **myChar** and store the integer value in **intValue**.

Print the value in **intValue** to the screen.