CSC 102 String WorkSheet

1. Declare and assign a string variable, firstName, to your first name.

String firstName = "Victor";

2. Write a Java statement that finds out how many characters are in firstName.

int length = firstName.length();

3. Write a Java statement that displays the third character is.

char thirdChar = firstName.charAt(2);

4. Declare and assign a string variable, lastName, to your last name.

String lastName = "Ejiasi";

5. Declare and assign a string variable, fullName, that combines firstName and lastName.

String fullName = firstName + " " + lastName;

6. Write Java statements that will read in your first and last name to a variable called thisName and then check if they are the same thisName to fullName. Make sure you do not consider capitalization when checking if the variables are the same.

String thisName = "Victor Ejiasi";

boolean sameName = thisName.equalsIgnoreCase(fullName);

7. Tell me what the result of this test was. Was it what you expected?

The result of the test was true since I entered my name for the firstName and lastName variable when this name was checked since I used my name there as well it was in fact the same as I expected.

8. Write a Java statement that will return an int when comparing Lumberjacks! to m.

String lumberjacks = "Lumberjacks!"; int compare = lumberjacks.compareTo("m"); System.out.println("Compare Lumberjacks! to m: " + compare);

9. Write the Java statement that will read in 1 word.

String word = "word";

10. Write the Java statement that will read in a group of words.

String groupOfWords = "group of words";

11. What is the problem with the nextLine method?

It reads in the entire line, including the newline character, so it will not work if you want to read in a single word.

12. State the method that will *compare* two Strings without considering the capitalization. equalsIgnoreCase

13. Write the Java statement the will see if CSC102 ends with 0.

```
String csc102 = "CSC102";
boolean endsWithZero = csc102.endsWith("0");
System.out.println("Does CSC102 end with 0? " + endsWithZero);
```

14. Write the Java statement that will find the first occurance of w in the String word.

```
int firstOccurance = word.indexOf("w");
System.out.println("First occurance of w in word: " + firstOccurance);
```

15. Write the Java statement that will fine the last occurance of w in the String knowledgeable.

```
String knowledgeable = "knowledgeable";
int lastOccurance = knowledgeable.lastIndexOf("w");
System.out.println("Last occurance of w in knowledgeable: " + lastOccurance);
```

Formatting Console Output - printf

1. Write the Java statement that formats so that the output looks like: The total is \$1600.00 double total = 1600.00;

System.out.printf("The total is \$%.2f%n", total);

2. Write the Java statement that formats the String, formatMe, with 6 spaces infront of it.

String formatMe = "Hello"; System.out.printf("%6s%n", formatMe);

3. Is the number positive or negative when aligning to the left?

When aligning to the left, positive numbers are preceded by a space, and negative numbers are preceded by a minus sign (-).

4. Is the number positive or negative when aligning to the right?

When aligning to the right, positive numbers are preceded by a space, and negative numbers are preceded by a minus sign (-).

5. What is the format specifier for a whole number?

The format specifier for a whole number (integer) is %d.

6. What is the format specifier for a decimal number?

The format specifier for a decimal number (floating-point number) is %f.

7. What is the format specifier for a character?

The format specifier for a character is %c.

8. What is the format specifier for a String?

The format specifier for a String is %s.