Practice Problems 2.3

Printf and Strings

STRINGS

Methods

What would be the literal for each of the following statements? Assume `horse` was declared as a String and has the value of "No sir, I don't like it".

1) `horse.length();`   "22"   4) `horse.substring(10);`   " "

2) `horse.substring(4,12);`   "IR, I DO"   5) `horse.charAt(18);`   "k"

3) `horse.charAt(15)`   " "   6) `horse.substring(2,5);` " SI"

The Fun with Concatenation

Assume the String `lawyer` is "Harvey Dent" and the String villain is "Two-Face". What would the literal be for each problem:

7) `lawyer.substring(0,6) + villain.length();`   "Harvey7"

8) `lawyer.substring(7)+ villain.substring(3);`   "d"

9) `lawyer.length() + villain.length();`   "107"

10) `"" + lawyer.length() + villain.length();`   " 107"

PRINTF

Assume that int `num` is `56`, double `dubSauce` is `156.7898`, and String `greating` is `"Howdy"`. For each question, state what the output is:

11) `System.out.printf("%5d", num);`   "56"

12) `System.out.printf("%10s", greating);`   "greating"

13) `System.out.printf("%-10s", greating);`   ""

14   `System.out.printf("The  rounded  number  is%6.1f",` "The rounded number is
     `dubSauce);`   156.8"

15) `System.out.printf("The string is %s and the number` "The string is greating and
     `is %d", greating, num, dubSauce);`   the number is 56"