CS102

Introduction to data structures, algorithms, and object-oriented programming

System.out.println and print

println, in the System.out class, allows you to output a String.

System.out.println("Welcome to Vassar College!");

This method puts in a newline after printing the String. You can use the line System.out.println(); with no String argument to put a blank line in your output.

System.out.print("This is a line with no newline after it."); print() is a method that does not put in a newline. The problem with this is that, if you end your program with a print, it brings up the cursor immediately after the output.

System.out.println and print

Inside the String argument to println, any variable concatenated to a String using the + operator is automatically reformatted into a String.

System.out.println("x is "+x+" and y is "+y);

At times, concatenating the empty String first causes all subsequent values to be converted to their String equivalent:

char beta = 'B'; String letters = ""; // set letters to empty string letters += ""+beta+" ";



Scanner, Eck Section 2.4.6

A class in the java.util package that provides methods to read input from the keyboard. To use a Scanner to read from the keyboard (standard input), you need to instantiate an object of type Scanner.

Scanner in = new Scanner(System.in); System.out.println("Please enter a number."); double rnum = in.nextDouble(); System.out.printf

("Number in dollars is \$%1.2f.\n", rnum);

The keyword new is used to create a new object of type Scanner.

The input is done by calling the nextDouble instance method of the new Scanner object.

System.in refers to the keyboard.













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