Formatted Output Homework – Solution
BE-104, Spring '05, Dr. C. S. Tritt
Due Monday, May 2

Given: a = 1.2345, b = 23.4, c = 1234567.89, x = −3, y = 234001, z = 12 and sv = "Two Words"

1. What output, if any (there could be errors), would be produced by each of the following statements?

    a. System.out.printf("%,d\n", y*(z − x));

3,510,015

    b. System.out.printf("%d widgets will cost you $%7.2f.\n", z, b);

12 widgets will cost you $ 23.40. (a better choice for the second specifier would be %.2f).

    c. System.out.printf("You entered \"%s\"\n", sv);

You entered "Two Words"

    d. System.out.printf("A %.4f V input, resulted in a %.5g V output.\n", a, c);

A 1.2345 V input, resulted in a 1.2346e+06 V output.

2. Write the string *sc* that would cause the following Java statement to produce the indicated output.

    a. System.out.printf(sc, a) → Rounded off, that will be $1.23.

"Rounded off, that will be $%.2f.\n"

    b. System.out.printf(sc, c) → That took about 1,234,568 seconds.

"That took about %,.0f seconds.\n"

    c. System.out.printf(sc, x, z) → The coordinates are: −3, +12.

"The coordinates are: %+d, %+d.\n"

    d. System.out.printf(sc, sv, y) → The novel "Two Words" sold 234,001 copies.

"The novel \"%s\" sold %,d copies.\n