CSc 1350: The printf Method

Some Examples

1 Format Types

Code	Type
d	integer
x	hexadecimal
o	octal
f	floating point
e	exponential
g	general floating point
s	string
n	platform-independent end-of-line

2 Format Flags

Flag	Meaning
-	left-justification
0	show leading zeroes
+	show plus sign for positive numbers
(	put negative numbers in parentheses
,	show the decimal separators
∧	convert letters to upper case

3 Examples

Give the output of each of the statements below. Use □ to denote the whitespace character.

1. System.out.printf("%d%s%f",23,"z",4.1);

   `23z4.100000`

2. total = 3.5;
   System.out.printf("Total:%5.2f",total);

   `Total:□3.50`

3. total = 3.5;
   System.out.printf("%-6s%5.2f%n","Tax:",total);

   `Tax:□□□3.50`

4. num = 23;
   System.out.printf("The number is %6d.",num);

   `The number is □□□□23.`

5. tax = 233.12;
   System.out.printf("The tax is %6.2f this year.%n",tax);

   `The tax is 233.12 this year.`

6. tax = 233.12;
   printf("The tax is %8.2f this year.%n",tax);

   `The tax is □□233.12 this year.`

7. tax = 233.12;
   printf("The tax is %-8.2f this year.%n",tax);

   `The tax is 233.12□□ this year.`

8. month = 9;
   day = 5;
   year = 2005;
   System.out.printf("%02d/%02d/%d", month, day, year);

   `09/05/2005`