16.216: ECE Application Programming

Spring 2012

Lecture 10: Key Questions February 13, 2012

1.	Explain how to set the precision of a value printed using printf(), and what the
	precision means for the different data types.

2. Example: Assume int x = 123; float y = 4.56; double z = 7.89991;

What does each of the following lines print?

- a. printf("%4d %5f %6lf\n", x, y, z);
- b. printf("%.4d %.4f %.4lf\n", x, y, z);
- c. printf(" $08d \%-7.1f \%+-4.1lf !\n", x, y, z);$

- M. Geiger Lecture 10: Key Questions
- 3. **Example:** Write a short code sequence to do each of the following:
- a. Print three integers—x, y, and z
 - Use field widths of 10, 20, and 30, respectively
 - Put an extra space between each field
 - Show the signs of all values and left justify them
- b. Print four doubles—d1, d2, d3, d4
 - Use field widths of 7 for all values
 - Put an extra space between each field
 - Show 1, 2, 3, and 4 places after the decimal point, respectively
- c. Given three variables—int w, p; double var;
 - Read values for w and p from the input
 - Print var using field width w and precision p