## **16.216: ECE Application Programming** Fall 2012

Lecture 4: Key Questions September 12, 2012

1.	Describe	the use of	scanf(	)	for reading	input	values	into	variables.
- •			~ ~ ~ ~ ,	,	101 1000				,

 $2. \ \ How does \, \verb|scanf|() \, handle \, whitespace \, and \, other \, characters \, in \, format \, string?$ 

- 3. **Example:** Assume you have the following variables: int i; double d; char c; If your program contained each of the following calls to scanf(), what values would be read into the appropriate variables, given user input?
- a. Input: 34 5.7
  scanf("%d%lf", &i, &d)

b. Input: 34 5.7
 scanf("%d %lf", &i, &d)

c. Input: 34 5.7
 scanf("%lf%d", &d, &i)

d. Input: 34 5.7
 scanf("%d%c", &i, &c)

e. Input: 34 5.7 scanf("%d %c", &i, &c)

4. Explain how to set the field width, alignment, and padding characters for values printed using printf().

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