EECE.2160: ECE Application Programming

Fall 2017

Lecture 5: Key Questions September 15, 2017

1. **Example:** Show the output of each of the following short programs: #include <stdio.h> void main() int i=2, j=3, k, m; k = j * i;m = i + j;printf("%d %d %d %d\n", i, j, k, m); } #include <stdio.h> void main() { double f, q; f = 1.0 / 4.0;g = f * 20;printf("f = %1f, \ng = %.21f\n", f, g); } #include <stdio.h> void main() { int a = 5, b = 2; printf("Output%doesn't%dmake%dsense", a, b, a + b); }

2. Describe the use of scanf () for reading input values into variables.

3. How does scanf () handle whitespace and other characters in format string?

- 4. 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)