EECE.2160: ECE Application Programming Fall 2018

Lecture 5: Key Questions September 14, 2018

QUESTIONS:

- 1. (Review) Describe the use of printf() to print numeric values and characters.
- 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. What is the purpose of the scanf () return value?

EXAMPLES:

```
1. 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);
}
b.
#include <stdio.h>
void main() {
     double f, g;
     f = 1.0 / 4.0;
     q = f * 20;
     printf("f = %lf, \ng = %.2lf\n", f, g);
}
#include <stdio.h>
void main() {
    int a = 5, b = 2;
   printf("Output%doesn't%dmake%dsense", a, b, a + b);
}
```

- 2. 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)