16.216: ECE Application Programming

Spring 2015

Lecture 5: Key Questions February 4, 2015

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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);
}
b.
#include <stdio.h>
void main() {
     double f, g;
     f = 1.0 / 4.0;
     g = f * 20;
     printf("f = %lf, ng = %.2lf, 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)