16.216: ECE Application Programming
Fall 2011

Lecture 10: Key Questions
September 27, 2011

1. Explain the basic form of an `if` statement.

2. Describe how the expression in `if (<expression>)` is evaluated and show how conditions are evaluated, including multiple conditions in the same expression.

3. Describe how the statement—the actual code to be executed if the condition is true—
    is written for an `if` statement.

4. Show how multiple if statements can be nested together (`if/else if/else`).

5. **Example:** What does the following code print?

```c
int main() {
    int x = 3;
    int y = 7;

    if (x > 2)
        x = x - 2;
    else
        x = x + 2;

    if ((y % 2) == 1)
    {
        y = -x;
        if ((x != 0) && (y != -1))
            y = 0;
    }
    printf("x = %d, y = %d\n", x, y);
    return 0;
}
```