EECE.2160: ECE Application Programming
Spring 2017

Lecture 7: Key Questions
February 1, 2017

1. Explain the useful features of a debugger.
Note: At this point, we'll run through the use of the Visual Studio debugger; feel free to use this space to take notes on that demonstration.

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

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

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

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

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

```
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;
}
```