16.216: ECE Application Programming

Spring 2012

Lecture 11: Key Questions February 15, 2012

1. I	Explain	the	basic	form	of an	if	statement.
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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?

```
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;
}
```