16.216: ECE Application Programming

Spring 2014

Lecture 28: Key Questions
April 11, 2014

1. Describe how to represent decimal values in binary (base 2) and hexadecimal (base 16) and how to convert between those bases.

2. Describe the C bitwise operators.

3. Explain C bit shift operators and their uses.

4. **Example:** Evaluate each of the following expressions if you have the following `unsigned int` variables: `A = 7, B = 10, and C = 0xFFFFFFFF`

a. `A & B`

b. `A | ~B`

c. `A ^ C`

d. `A << 4`

e. `B >> 5`

f. `A | (B << 2)`