# EECE.2160: ECE Application Programming 

Spring 2018
Lecture 31: Key Questions
April 20, 2018

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: $\mathrm{A}=7, \mathrm{~B}=10$, and $\mathrm{C}=0 \times \mathrm{xFFFFFFFF}$ a. A \& B
b. A | ~B
C. A ^ C
d. A $\ll 4$
e. B >> 5
f. A | (B << 2)
