Activity 3
(Revisiting 304 Background Material)

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1. Unsigned Binary Representation:
   Represent 4 (decimal) as Binary: 0100
   Represent 7 (decimal) as Binary: 0111
   Represent 9 (decimal) as Binary: 1001

2. Signed Binary Representation (two's complement):
   What is the two's complement of: 0101
       0101: 5
       1011: -5
   What is the two's complement of: 0110
       0110: 6
       1010: -6
   Represent -6 as Binary: 1010
   Represent -5 as Binary: 1011

3. Convert eca8 6420 (hex) to binary:
1110 1100 1010 1000 0110 0100 0010 0000

4. Signed vs Unsigned extension: extend: 1100 to 8-bit binary assuming:
a) unsigned: 0000 1100
b) signed extension: 1111 1100