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#121260 Activity 1.2 Prof. Luis Ortiz

1. Convert to Binary representation the following:
   1. 21316 = 110101012
   2. 0xABCDEF = 1010 1011 1100 1101 1110 11112
2. Convert to Hexadecimal representation the following:
   1. 1000010102 =10A
   2. 10112 = B
3. Convert to Hexadecimal representation the following:
   1. -1010 = -A
   2. 101110 = AB
4. Convert to Decimal representation the following signed hexadecimals:
   1. 1016 = 16
   2. F016 = 240

Answers:

1. Exercise 1
   1. 21316 = 110101012
      1. 213/2 = 106 = 1
      2. 106/2 = 53 = 0
      3. 53/2 = 26 = 1
      4. 26/2 = 13 = 0
      5. 13/2 = 6 = 1
      6. 6/2 = 3 = 0
      7. 3/2 = 1 = 1
      8. 1/2 = 0 = 1
   2. 0xABCDEF = 1010 1011 1100 1101 1110 11112
2. Exercise 2
   1. 10A
   2. B
3. Exercise 3
   1. -1010 = -A
   2. 10 1110 = AB
4. Exercise 4
   1. 1016 = 1 \* 161 + 0 \* 160 = 16 + 0 = 16
   2. F0 =
      1. F = 15
      2. 15 0 = 15 \* 161 + 0 \* 160 = 240 + 0 = 240