UVa Email ID	(no aliases	please):	wdk7bj
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Name _Wright Kim_____ Lab section _104____

Lab 4 - Radix Conversion Worksheet

Convert:

1.
$$0x4F45$$
 into octal $0x4f45$ (hex) $\rightarrow 0$ 100 111 101 000 101 (binary) $\rightarrow 047505$ (octal)

$$\begin{array}{cccc} 2. & 269_{10} & & \text{into radix 7} \\ 269 & & & & & \\ 7 \mid & 38-3 & & & & \\ 7 \mid & 5-3 & & & & \\ 7 \mid & 0-5 & & & & \end{array}$$

3.
$$1100110111110_2$$
 into decimal $2^11 + 2^10 + 2^7 + 2^6 + 2^4 + 2^3 + 2^2 + 2^1 = 3294$

4.
$$2BD_{19}$$
 into decimal $2*19^2 + 11*19^1 + 13*19^0 = 944$

- 5. Given the following positive binary integer in two's complement: 0101001101011101
- a) Convert the number to hexadecimal: $0101\ 0011\ 0101\ 1101\ \rightarrow 0x535D$
- b) Negate the number. Flip the bits 1010 1100 1010 0010, add $1 \rightarrow 1010 \ 1100 \ 1010 \ 0011$