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Lab 4 - Radix Conversion Worksheet
Convert:
1. 0x4F45 into octal 0x4F45=20,293 base 10=4*8^4+7*8^3+5*8^2+5=47,505 base 8
2. 269 <sub>10</sub> into radix 7 269 base 10=5*7^2+3*7+3=533 base 7
3. 110011011110 <sub>2</sub> into decimal 110011011110=2+2^2+2^3+2^4+2^6+2^7+2^10+2^11=3294base10
4. 2BD <sub>19</sub> into decimal 2BD base 19=D+B*19+2*19^2=13+11*19+2*19^2=944 base 10
5. Given the following positive binary integer in two's complemen 0101001101011101
a) Convert the number to hexadecimal: 0101001101011101=1+2^2+2^3+2^4+2^6+2^8+2^9+2^12+2^14=21,341base10=

5\*16^3+3\*16^2+5\*16+13=0x535D

b) Negate the number.

-(0101001101011101) = 1 + 1010110010100010 = 1010110010100011