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. CSC -17A- 48290.

Lab 2 Conversions Base 2, 8, 10, 16.

Base	10	16	8	2
2,8,16	0.25	0.4	0.20	0.0100
2,10,16	0.328125	0.54	0.25	0.010101
2,8,16	· · ·	0,25	0.122	0,0010 0101
2,10,16	0.8125	0.0		0.1101

$$0.25_{10} = 2 \times 10^{-1} + 5 \times 10^{-2}$$

$$0.4$$

$$0.25 \times 16 = 4.00 \Rightarrow 0.25_{10} = 0.4_{16}$$

$$0.010_{2}$$

$$0.4_{16} = 4 \times 16^{-1} = 0.25$$

$$\frac{0.0100}{0.208} = 2 \times 8^{-1} = 0.25.$$

$$0.25_{16} = 0.0010 \quad 0.01_{2} = 0.14453125_{16} = 0.122_{8}$$

$$0.25_{16} = 2 \times 10^{-1} + 5 \times 16^{-2}$$

$$0.0010 \quad 0.001 \quad = 0.125 + 0.01953125$$

$$= 0.14453125_{16}$$

$$0.14453125 \times 8 = 1.15425$$

$$0.150125 \times 8 = 1.25$$

$$0.25 \times 8 = 2.00$$

$$0.1128$$

$$0.1101_{2} = 0.8125_{10} = 0.D_{16}$$

$$0.1101_{2} = 1 \times 2^{-1} + 1 \times 2^{-2} + 0 \times 2^{-3} + 1 \times 2^{-4}$$

$$= 0.5 + 0.25 + 0 + 0.0625$$

$$= 0.8125_{10}$$