Tutorial 2

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Lee Jun Xian
Q1a&b
           a) Convert 3D7<sub>1 6</sub> to binary, octal and decimal respectively
           1 a) 3D7_{1} 6 = 11 1101 01112 = 17278 = \frac{983_{1}}{100} \rightarrow 2+2+1m (missing working)
           for Base 10)
           WOrking = 1m
           Final answer = 1m
           b) Convert 11000101001000012 to octal, decimal and hexadecimal
               respectively
              b) 1100\ 0101\ 0010\ 0001_2 = C521_1 = 142441_8 = \frac{50465_1}{100} \rightarrow 2+2+1m
           (missing working for Base 10)
Q1c&d
           Leong Yit Wee
           c) Convert 7098<sub>1 0</sub> to binary, octal and hexadecimal respectively
           1c) 7098(10) = 1\ 1011\ 1011\ 1010\ B \rightarrow 1m (missing working)
                           = 15672(8) \rightarrow 2m
                          = 1BBA H \rightarrow 2m
           d) Convert 13612<sub>8</sub> to binary, decimal and hexadecimal respectively
           1d)13612(8) = 1 0111 1000 1010 B \rightarrow 2m
                          = 6026(10) \rightarrow 1m (missing working)
                          = 178A H \rightarrow 2m
Q1e&Q
           Lim Chia Chung
           1 e) Convert 2101023 to decimal
2a
            2101023 = 57810 \rightarrow 1m (missing working)
           2 a) 1011<sub>2</sub> + 1111<sub>2</sub>
                 101 12
               +1111112
           =(1)1010_2 \rightarrow 2m
Q2b&c
           7158 - 578 \rightarrow 2m
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$$\frac{2(c) (521 + x3DH = 2EF8DD_{16})}{\frac{16521}{2521}} = \frac{16160}{10-0}$$

$$\frac{x + 3D}{A02AD} = \frac{1-10}{16166}$$

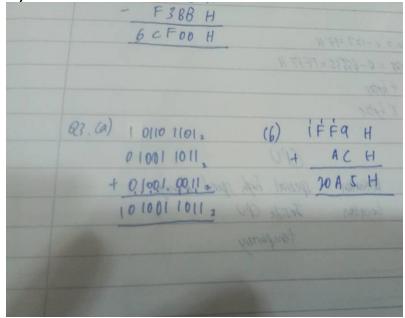
$$\frac{24F63}{24F63} = \frac{4-2}{2-4}$$

Q3a&b

LIM MING JUN

a.) 1011011012 + 100110112 + 100100112

b.) 1FF9₁₆ + AC₁₆



$$2A6_{12} - 2A_{12}$$

$$2A6_{12} - 2A_{12}$$

$$2A6_{12} = (12^{2}x^{2}) + (12^{2}x^{10}) + 6(12^{2}x^{10})$$

$$= 414_{10}$$

$$2A_{12} = (12^{2}x^{2}) + (12^{2}x^{10})$$

$$= 34_{10}$$

$$414_{12} = \frac{380}{380}$$

$$12_{12} = \frac{31 - 8}{2}$$

$$13_{10} = \frac{31}{2}$$

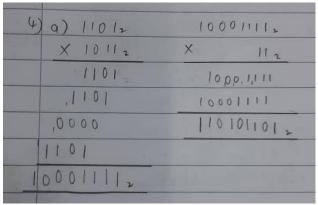
$$2A_{12} = \frac{31 - 8}{2}$$

$$2A_{13} = \frac{31 - 8}{2}$$

$$2A_{14} = \frac{31 - 8}{2}$$

$$2A_{15} = \frac{31 - 8}{2}$$

$$2$$



- b) Illogical because the data range for base 5 is 0,1,2,3,4, so the number should not be more than or equal to 5.
 -31**75**(number 7 more than 5; number 5 equals to 5)