COMP273 Assignment/ le Yuan 260921269. 1. 0.1101012 = 1x2 +1x2 -2 +0x2 3 +1x2 +0x2 5 +1x2 6 = 0.828125 0.625 > 2=135 D25 x Z = 0.5 2[2 0 0.5x2 =1 40 8.625₁₀ = 1000, 1012. 1000.10102 = 8.A₁₆. by grouping. 3. By grouping, using 5 bits in binary to express 1 bit in base 32. 2TD. 03F32 = 00019 [110], 0110]. 11000, 00011 011/1 40 270.03F32 = 101110101101.1100000011011112 From binary to hexadecimal:

by grouping again,

B A D. C O D E.

50 2TD. 03F32 = BAD. CODE16.

```
4. 2123366147
  = 2 × 78 + 1 × 77 + 2 × 76 + 3 × 75 + 3 × 74 + 6 × 73 + 6 × 72 + 1 × 7 + 4 × 72
  = 1264843010.
    16/12648430
16/790527 ---- E
      16[4940] ....E
       16 3087 .... F
        16 192 VIII F
          40 12648430= COFFEE = 2123366147.
5.2 259062
                        259062,=001111110011111101102
   2 429531 ....0
   2 64765 .....1
                    Invert the bits.
    2 32382 .....
    2/6191 .....0
                     11000000110000001001
    2 8095
                    The add one.
    2 4047 .....
     2 (2023 ....
                   -25/06210=11000000110000001010z.
    2 (1011 ... 1
                  Change to hexadecimal by grouping:
     2 252 ... 1
      2/126 .... 0
                     COCOA16 = -25906210.
       2/63 .....
      2 31 .... 1
       2/7 ..../
       2/3 ..../
       211 .... 1
         D ..... .
```