## Assignment 3 miles lambares

$$(1011)_{2} = 1 \times 2^{3} + 0 \times 2^{2} + 1 \times 2^{1} + 1 \times 2^{0}$$

$$= 8 + 0 + 2 + 1 = (11)_{10}$$

$$(0.1011)_{2} = 1 \times 2^{-1} + 0 \times 2^{-2} + 1 \times 2^{-3} + 1 \times 2^{-4}$$

$$= 0.5 + 0 + 0.125 + 0.0625 = (0.6875)_{10}$$

$$\frac{+1110}{11000} \quad \frac{+14}{24} \quad \frac{\times 101}{111} \quad \frac{\times 101}{0000} \quad \frac{\times 101}{100011}$$

Brany to Hexadecimal conversion:

$$\frac{1100}{c} \frac{1010}{A} \frac{0101}{5} \frac{0111}{7} = (CA57)_{16}$$

9= 3/2 0

Hexadedmal to Decimal Conversion:

$$(A105)_{16} = 10 \times 16^{3} + 1 \times 16^{2} + 12 \times 16^{1} + 5 \times 16^{6}$$
  
=  $40960 + 256 + 192 + 5 = (41413)_{10}$ 

Octal to Decimal conversion 3-

$$(437)_8 = 4 \times 88^2 + 3 \times 8^1 + 7 \times 8^0$$
  
=  $(287)_{10}$ 

Octal to Banary conversion ? -

$$(753)8 = ($$

Binary to Octal convension ?-

Decimal to Binary Conversion 8-

Repeated avion to by 2 method,

Quotient	Remainder	
\$ 13/2 = 6	1	LSB
6/2 = 3	310	
3/2 = 1	4	
1/2 = 0	Δ	MSB

$$0.59375 \times 2 = 1.1875$$
 1  
 $0.1875 \times 2 = 0.375$  0  
 $0.375 \times 2 = 0.75$  0  
 $0.75 \times 2 = 1.50$  1

0.50 × 2 = 1.00

Decimal to Octal conversion: -

## a Sportant

$$335/8 = 41.875$$
  $0.875 \times 8 = 7$   $41/8 = 5.125$   $0.125 \times 8 = 1$   $\uparrow$   $5/8 = 0.625$   $0.625 \times 8 = 5$ 

1

$$0.8125 \times 8 = 6.5$$

$$0.5 \times 8 = 4$$

$$\frac{001}{1} = \frac{101}{5} = \frac{110}{6} \cdot \frac{110}{6} = \frac{111}{7} = \frac{010}{1} = \frac{156.672}{8}$$

Decimal to Hexodecimal conversion:

$$\frac{2591}{16}$$
 = 161.9375

$$\frac{161}{6} = 10.0625$$

Binary to Hexadecimal :-

Convert Decimal number to BCD:

1001

4910+

0110+

11001000

BCD code for decimal 98 8-

Conventing BCD to edes to decimal 8-(SP) = 01(Leas)

BCD additions-

$$\frac{0011}{+0100}$$
  $\frac{3}{7}$ 

Site Fat a Feed

11(7L) = 0(1835) -1

1110 : 0111 1010 0101 1000

Longlood though

1001 1001 1000 1001 -> Invalid because canny generated 00010010 0010 +0110+0110 1 8 1000

Excess -3 code for decimal 5 Ps,

$$\frac{5}{8} \rightarrow 1000$$

The excess-3 code for decimal 7 is,

$$\frac{7}{10} \rightarrow 1010$$

Convert declinal 928 to excess 3:-

@ CODD billarat) co

0.1101000

THOOHS

11001010

01011101

011010111 4

0 000 010010