Module - 1

Digital Concepts & Techniques

@@ binary

@@ radix & base

Decimal to binary

eg: convert $(12.05)_{10}$ to binary

2	12	
2	6	0
2	3	0
	1	1

$\therefore (12)_{10} = (1100)_2$

$\therefore (12.05)_{10} \approx (1100.0010)_2$

$0.15 \times 2 = 0 \quad .3$

$0.3 \times 2 = 0 \quad .6$

$0.6 \times 2 = 1 \quad .2$

$0.2 \times 2 = 0 \quad .4$

$\therefore (.05)_{10} \approx (.0010)_2$