

Cs101

Assignment No.2

Solution:-

Q1.

I. Multiply 6 with 2

$$6 * 2 = 12$$

$$6 + 6 = 12$$

$$110 + 110 = 1100 = 12$$

II. Addition of 7 and 3

$$111 + 11 = 1010 = 10$$

III. Subtraction of 5 and 4

$$5 + (-4)$$

2's complement of -4 = **1100**

0101 + 1100 + 10001 neglecting first because of overflow final answer would be 0001

Q2.

(00110011) ₂
AND(10101011) ₂
(00100011) ₂

(00100011) ₂
00010000
(00110011) ₂