

## F.E. Sem - 2 CBCGS SPA – MAY 17

Q.1.a.) Convert 0010 0100 0010 1101 from base 2 to decimal. Convert 134 from base 10 to hexadecimal. Write steps for conversion.

Ans:

Binary to decimal: The steps to be followed are:

1. Multiply the binary digits (bits) with powers of 2 according to their positional weight.
2. The position of the first bit (going from right to left) is 0 and it keeps on incrementing as you go towards left for every bit.
3. Given:  $(0010\ 0100\ 0010\ 1101)_2 = (?)_{10}$
4.  $0 \cdot 2^{15} + 0 \cdot 2^{14} + 1 \cdot 2^{13} + 0 \cdot 2^{12} + 0 \cdot 2^{11} + 1 \cdot 2^{10} + 0 \cdot 2^9 + 0 \cdot 2^8 + 0 \cdot 2^7 + 0 \cdot 2^6 + 1 \cdot 2^5 + 0 \cdot 2^4 + 1 \cdot 2^3 + 1 \cdot 2^2 + 0 \cdot 2^1 + 1 \cdot 2^0$   
 $= 0 + 0 + 8192 + 0 + 0 + 1024 + 0 + 0 + 0 + 0 + 32 + 0 + 8 + 4 + 1$   
 $= 9261$   
 $(0010\ 0100\ 0010\ 1101)_2 = (9261)_{10}$

Decimal to hexadecimal: The steps to be followed are:

1. Divide the decimal number by 16. Treat the division as an integer division.
2. Write down the remainder (in hexadecimal).
3. Divide the result again by 16. Treat the division as an integer division.
4. Repeat step 2 and 3 until result is 0.
5. The hexadecimal value is digit sequence of the reminders from last to first.
6. Given:  $(134)_{10} = (?)_{16}$

|    |    |     |   |
|----|----|-----|---|
|    | 16 | 134 |   |
| 16 | 8  | 6   | ↑ |
|    | 0  | 8   |   |

$$(134)_{10} = (86)_{16}$$

# Structured Programming Approach First Year Engineering

**Robert R. Redfield**



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