Tutorial 1

- 1) $(110.101)_2$
- 2) (110110100)₂
- $3)(198)_{12}$
- 4) (755)8
- **Q-2** The representation of the value of a 16-bit unsigned integer X in a hexadecimal number system is BCA9. The representation of the value of X in octal number system is?
- **Q-3** Let the representation of a number in base 3 be 210. What is the hexadecimal representation of the number?
- **Q-4** Convert 59.72₁₀ to BCD.
- **Q-5** Obtain 1's and 2's complement:
- 1) 1010110
- 2) 00000001
- **Q-6** Obtain 9's and 10's complement:
- 1) 12349876
- 2) 00980100
- **Q-7** Perform the subtraction with the following unsigned decimal numbers by taking the 10's complement of the subtrahend:
- 1) 5250-1321
- 2) 1753-8640
- 3) 20 -100
- **Q-8** Perform the subtraction with the following unsigned binary numbers by taking the 2's complement of the subtrahend:
- 1) 11010-10000
- 2) 1010100-1010100
- **Q-9** In 16-bit 2's complement representation, the decimal number -28 is ?
- **Q-10** Equation: $(7526)_8 (Y)_8 = (4364)_8$, where $(X)_N$ stands for X to the base N. Find Y.