

Tutorial - 6

1. Convert the following in the 8,4, -2, -1 and excess-3 coding.
 - a. 19
 - b. 26
 - c. 45
2. Encode the decimal digits 0, 1, 2, ... ,9 by means of weighted codes 3321, 4221, 731-2, 631-1.
3. Perform the following decimal additions in the 8421 code.
 - a. $679.6 + 536.8$
4. Express the following decimal numbers in (i) 8421 BCD code, (ii) XS-3 code, (iii) 2421 code, (iv) 5211 code, (v) 642-3 code, (vi) 84-2-1 code.
 - a. 807
 - b. 429.5
5. Convert the following numbers into gray code.
 - a. $(1011)_2$ in base - 2
 - b. $(110110010)_2$ in base - 2
 - c. $(45)_{16}$
 - d. $(8512)_{12}$
6. Convert the following gray code into binary.
 - a. 1111
 - b. 101110
7. In an even-parity scheme, which of the following words contain an error?
 - a. 10101010
 - b. 11110110
 - c. 101110001
8. In an odd-parity scheme, which of the following words contain an error?
 - a. 10110111
 - b. 10011010
 - c. 11101010