Excess-3 Code

- The excess-3 code is another important BCD code.
- The excess-3 code for a given decimal number is determined by adding '3' to each decimal digit in the given number and then replacing each digit of the newly found decimal number by
- Excess-3 is a non weighted code used to express decimal numbers.
- The code derives its name from the fact that each binary code is the corresponding 8421 code plus 0011(3).

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Decimal	Excess 3	Excess 3 Binary no.
0	3	0011
1	4	0100
2	5	0101
3	6	0110
4	7	0111
5	8	1000
6	9	1001
7	10	1010
8	11	1011
9	12	1100
10	13	
11	14	
12	15	

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• Example:

• obtain excess 3 code of $(56)_{10} = (?)_{10} = (?)_{20}$

- obtain
- (10001001)_{EX3} = (?)_{BCD}