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DCO LAB - Assignment no 1

1) Convert binary to Decimal

a) 101011 → 43

b) 11001 → 25

c) 1100010 → 98

2) Convert from binary to Octal

a) 1101011 ⟶ 001 101 011 → 153

b) 10101010 ⟶ 010 101 010 → 252

c) 110011 → 110 011 → 63

3) Convert binary to Hexadecimal

a) 10110001 → 1011 0001 → B1

b) 00110101 → 0011 0101 → 35

c) 10111000 → 1011 1000 → B8

4) Convert decimal to binary

a) 27 → 11011

b) 41 → 101001

c) 98 → 1100010

5) Convert Hexadecimal to binary

a) 2   →   0010
b) FF   →   1111 1111
c) CD   →   1100 1101

6) Convert decimal to hexadecimal

a) 129 → 81

16	129	
16	8	1
	0	8

b) 109 → 6D

16	10 9	
16	6	13-D
	0	6

c) 74 → 4A

16	74	
16	4	10-A
	0	4

7) Convert hexadecimal to decimal

a) 5C   → $16 \times 5 + 1 \times 12$ →   92
b) 76   → $16 \times 7 + 1 \times 6$ →   118
c) F9   → $16 \times 15 + 1 \times 9$ →   249

8) Convert Octal to binary

a) 246   →   010 100 110
b) 412   →   100 001 010
c) 567   →   101 110 111