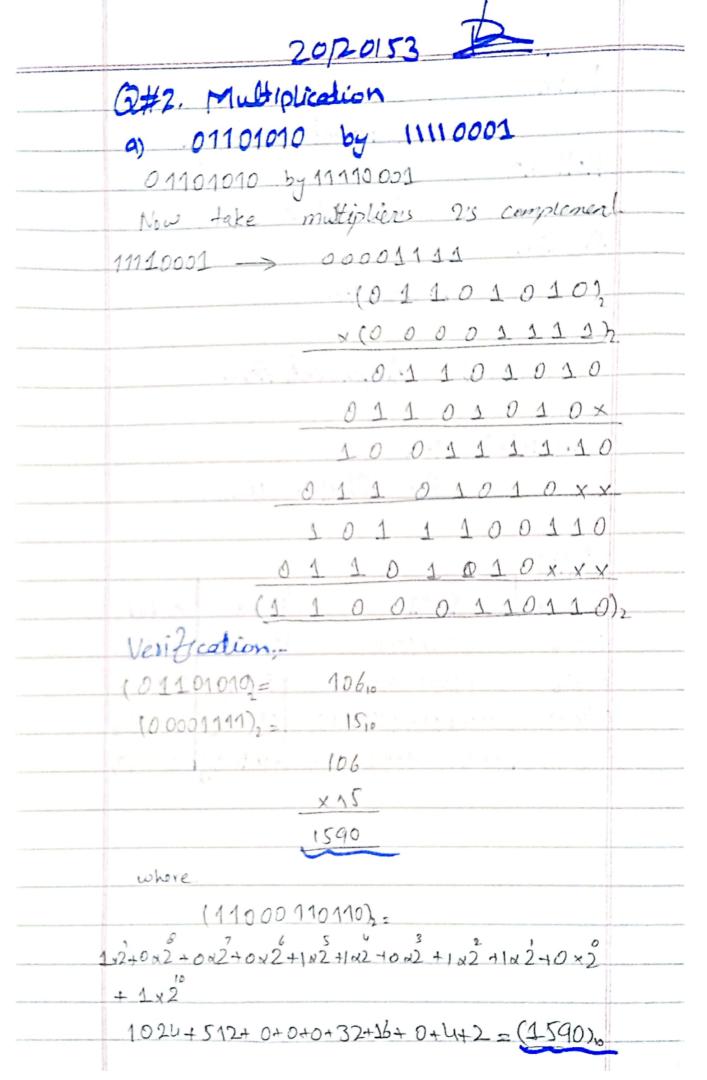
Roll no	Dawood		
	20P-015	3	
Section	* * * * * .		
3 4	BSCS-2.8#2		
	DLD Assignment	t #2.	
Submitt	ed to:		
	Sir Chakir	Illah	
	Sir Shakir	ullan	
Q#1.		ullan	
Q#1 Decimal		Hexa	Octob
0#1 Decimal (98)6			Octob
(98)6	BCD	Hexa	Octob
(98)b (98)b	BCD (1001 1000) ₂	Hexa (62)18	Octal (142)8
(98) _b (1467) _b	BCD (10011000), (10011000),	(62) ₁₆ (62) ₁₆ (62) ₁₆ (5BB) ₁₆	(142) ₈ (142) ₈ (142) ₈ (2673) ₈
(98)b (98)b (1467)b	BCD (1001 1000), (10011000), (0001 0100 0110 0111),	(62) ₁₆ (62) ₁₆ (62) ₁₆ (5BB) ₁₆	(142) ₈ (142) ₈ (142) ₈ (2673) ₈
	BCD (1001 1000), (10011000), (0001 0100 0110 0111),	Hexa (62), (62), (5BB), (5BB),	(142) ₈ (142) ₈ (142) ₈ (2673) ₈
(98)b (98)b (1467)b	BCD (1001 1000), (10011000), (0001 0100 0110 0111), (0100 0011 1001 1000 000	Hexa (62), (62), (5BB), (5BB),	(142) ₈ (142) ₈ (142) ₈ (2673) ₈
(98)b (98)b (1467)b	BCD (10011000), (10011000), (0001 0100 0110 0111), (0100 00111001 1000 000	Hexa (62), (62), (5BB), (5BB),	Octal (142) ₈ (142) ₈ (2673) ₈ (2673) ₈

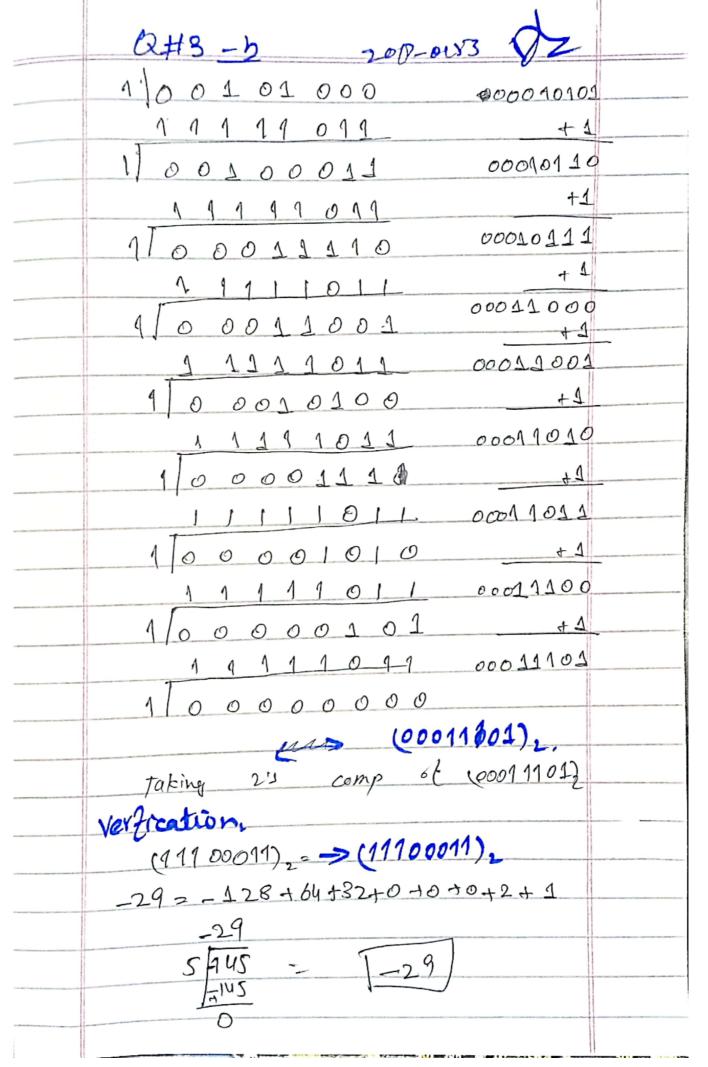


20P-0153 Q#2 b) 219 by 15 Solution: 219 by 15 $(219)_{10} = (11011011)_2$ $(15)_{10} = (00001111)_2$ 11011011 x 0 0 0 0 1 1 1 1₂ 1 1 0 1 1 0 1 1 11 0 11 0 11 x 01001000 1 1 1 0 1 1 0 1 1 x x 0 1 1 1 1 1 1 1 0 1 1 1 0 1 1 0 1 1 x x x 110011010101 Verification,-328510 (11 00 11 010101)2= 1 x2 + 1 x2 + 0 x2 + 1 x2 + 0 x2 + 1 x2 + 0 x2 + 1 x2 = 1 y2 +1 x2 +0x2 +0x2+ 2016 1024 0+ 0+ 128+64+0+16+0+4+0+1 +2048=(3285),0

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Q:	#3-b 20P-0153	J.
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	1 1111 011	+ 1
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× 6	1 1111011	+ 1
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	0 0 1 1 0 0 10	00010011
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	0 0 1 0 1 1 0 1	00010100
	111101	00010101
1	00101000	



2017-0153 Q#3 a) ABC16+1A316 H D B (ABC), + (1A3), A = 10 = 1010for (4BC), F = 15 = 1111 for (1A3)1, 10 3 (0001 1010 0011)2 (ABC), + (1A3),6 10101011 1100, +0001101000112 12 5 15 (C5F), (CSF)16 = 12 x/6+ Sx16+ 15x16 (3157),0 = 3072 + 80 + 15 Verification: (ABC), = 10 × 16+11 × 16+12 × 16 2560 + 176 + 12 = (2748),

20/20153 Q#4 a) 1 × 16 + 10 × 16 +3 × 16 (1 A3) = 2 256 + 160 + 3 = (419),0 (ABC) + (1A3) 16 = 2748,0 + 419,0 = (3167)

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Q#4 (F1), - (A6)4

Solution:

(F1), - (A6)16

in Hexa A = 10, F = 15

A = 10 = 1010 , F = 15 = 1111

(F1) (11110001)2

 $(Ab)_{11} = (10100110)_2$

lets take 2's complement of (Ab)4.

(10100110)= (01011000)_ = 2's complement

 $(F1)_{i} \rightarrow 11110001$

- (A6)1 > -01011000

X 01001011

verification. (01001011) = (4B) = 0x2+1x2+0x2+1x2+1x2

75 = 64+0+0+8+0+2+1

0100 1011 4 B

(4B),

(FA)16 = 241

(A6), = 166

75,0 = 4B,6 resignated upward in

Q#3. (Fam)	
C) (110) = - (8	$4)_{b} = (P)_{2}$
2 110	2/84
2 55-0	2 42-0
2 27-1	2 21-0
2 13-1	2 10-1
2 6-1	2 5-0
2 3-0	2 2-1
1-1	11-0
(1101110)	(1010100)2
take (101)	0100)'s 2's complement
1010100	= 0101100 11215 comp.
1	101110 2 we will do
aliscord. a	101100 } additio pows.
comp	011010
(001101	0),= 0+0+16+8+0+2+0
	= 26
0	(00 11010)
Verizitedion	2-
11	
<u> </u>	
2	6
	()

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Q#5

Answer:

The Gray code make only

One bit change. When we move to

next oligit It make one-bit change.

And also if we previous number It

make 1-bit change.

Jon example 0000 > 0001 > 0011

Sqray code for (1111) = 1000

Gray code for (0000) = 0000

Groy cook is proved by shaft shifter example dixused previous lecture.

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