Assignment No. 01

23k-3032 (Shak Hurain)

\$ (A)(83),0 -) ()2

(1) 1010011 sign-bit

(6) +101

2 50 1

61100101

sign-bit

(4) -103

 $\frac{2}{103}$ $\frac{2}{51}$ $\frac{51}{25}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{3}$

1) 1100111 sign-bit de (a) (-69)10 in 1's complement

2/69 2/34 2/7 2/2 2/2 0

(69)2 = 01000101

-69 = (10 111010 (1' complement

(b) (+116)10

(116)2 = 0 1110100

1 compenent = 10001011

(4) (-99)10

(99)10 = P 1100011

1" complement = Dooll 00

(a) 10111011

for 2's complement

invalled, as THE result is outside THE range of 8-bit representation system

$$= (11010101)_{2}$$

$$= (-43)_{10}$$

1)(3154)₁₆
$$\rightarrow$$
 (?) 16
16 3157 6
16 218 7
= (14) 76
= (E76) 16
16 70 19
= (1 E 90) 16
(2)(2926) 10
16 557 13
16 557 13
16 557 13
16 557 2
= (220F) 16
= (220F) 16
(2)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(3682710
16)(36827

Gray code! - 10110: (b) 1001010 · gray code! - 1101111 (4)1111011101110 gray code: - 1000110011001 Binary under- 1100 (b) DOD10 Binary code! - 000 11 (c) 1100001000) Binary code/- 100000011110 (A) 1001+ 0110 1001 (Invalid) 1 1 D (+6)

1001 + 1001 (+) DIDIDD 11+DIDIIDDO 1001 01010011 +01011000 10101011 + 0 1 1 0 (+ 6) +01100110 100010001 = 000 | 000 | 000 / = (00011000) (9) 10010101+100111 600 A) 1001+ 0111 1001 10010101 + 0 1 11 +100111000 111001101 + 0 1 1 D (+ b) + 01100110 1000110011 = (00010110) = 0010 0011 0011 (e) 00110101+01100111 (4)01010110101 + DD110010100 00110101 010101101001 10011100 + 001100101000 +01100110 + 0 110 0 111 100000010 = 0001 0000 0010 1000 10010001

175