COL 100

Lab Assigment 6

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Q:- (1)

1) $51 = 00110011$

$77 = +01001101$

10000000

$10000000 \longrightarrow$ [-128] (in Decimal)

00110011

01001101

10000000

Here, in this case it is not giving correct ans as integer overflow occurs.

2) $53 = 00110101$

$112 = 01110000$

So $-112 = 10001111$

$+1$

10010000

So $53 \quad 00110101$

$-112 + 10010000$

11000101

[-59] in Decimal

3) $35 = 00100011$

$23 = 00010111$

So $-23 = 11101000$

$+1$

11101001

$35 \quad 00100011$

$-23 + 11101001$

00001100

$00001100 \longrightarrow$ [12] in Decimal

4) $87 = 01010111$

$+$

$12 = 00001100$

01100011

[99] in Decimal

5) $75 = 01001011$

$-75 = 10110100$

$+1$

$= 10110101$

$-75 \quad 10110101$

$-54 + 11001010$

101111111

This ↑ can't be accomodated

[127] in Decimal

$54 = 00110110$

$-54 = 11001001$

$+1$

11001010

This also gives wrong ans due to integer overflow.