

1. convert unsigned decimal numbers to binary numbers (8 bits)
2. convert unsigned binary numbers to decimal numbers
3. convert unsigned decimal numbers to octal numbers
4. convert unsigned octal numbers to decimal numbers
5. convert unsigned decimal numbers to hexadecimal numbers
6. convert unsigned hexadecimal numbers to decimal numbers
7. convert signed decimal numbers to sign - magnitude binary numbers
8. convert signed decimal numbers to 1's complementary binary numbers
9. convert signed decimal numbers to 2's complementary binary numbers
10. convert sign - magnitude binary numbers to decimal numbers
11. convert 1's complementary binary numbers to decimal numbers
12. Convert 2's complementary binary numbers to decimal numbers
13. 1's complement arithmetic operation
14. 2's complement arithmetic operation

Please select the practice item: 7

Please convert 124 to signed decimal to 8-bit binary representation with sign-magnitude : 01111100

Excellent!

Continue? (y/n): y

Please convert 105 to signed decimal to 8-bit binary representation with sign-magnitude : 01101001

Excellent!

Continue? (y/n): y

Please convert -24 to signed decimal to 8-bit binary representation with sign-magnitude : 10011000

Excellent!

Continue? (y/n): y

Please convert 26 to signed decimal to 8-bit binary representation with sign-magnitude : 00011010

Excellent!

Continue? (y/n): y

Please convert -93 to signed decimal to 8-bit binary representation with sign-magnitude : 11011101

Excellent!

Continue? (y/n): n

Name: Adrian Lozada

You have completed 5 conversions of signed decimal integers to binary with sign magnitude.

You have done 5 correctly.

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Please select the practice item: 8

Please convert 65 to signed decimal to 8-bit binary representation with 1's complement: 01000001

Excellent!

Continue? (y/n): y

Please convert -16 to signed decimal to 8-bit binary representation with 1's complement: 11101111

Excellent!

Continue? (y/n): y

Please convert -107 to signed decimal to 8-bit binary representation with 1's complement: 10010100

Excellent!

Continue? (y/n): y

Please convert -115 to signed decimal to 8-bit binary representation with 1's complement: 10001100

Excellent!

Continue? (y/n): y

Please convert 23 to signed decimal to 8-bit binary representation with 1's complement: 00010111

Excellent!

Continue? (y/n): n

Name: Adrian Lozada

You have completed 5 conversions of signed decimal integers to binary with 1's complement.

You have done 5 correctly.

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Please select the practice item: 9

Please convert -119 to signed decimal to 8-bit binary representation with 2's complement: 10001001

Exellent!

Continue? (y/n): y

Please convert -68 to signed decimal to 8-bit binary representation with 2's complement: 10111100

Exellent!

Continue? (y/n): y

Please convert -101 to signed decimal to 8-bit binary representation with 2's complement: 10011011

Exellent!

Continue? (y/n): y

Please convert -117 to signed decimal to 8-bit binary representation with 2's complement: 10001011

Exellent!

Continue? (y/n): y

Please convert -16 to signed decimal to 8-bit binary representation with 2's complement: 11110000

Exellent!

Continue? (y/n): n

Name: Adrian Lozada

You have completed 5 conversions of signed decimal integers to binary with 2's complement.

You have done 5 correctly.

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Please select the practice item: 10

Please convert signed binary pattern 11000100 of sign-magnitude to decimal representation: -68

Exellent!

Continue? (y/n): y

Please convert signed binary pattern 11011101 of sign-magnitude to decimal representation: -93

Exellent!

Continue? (y/n): y

Please convert signed binary pattern 00010010 of sign-magnitude to decimal representation: 18

Exellent!

Continue? (y/n): y

Please convert signed binary pattern 11000001 of sign-magnitude to decimal representation: -65

Exellent!

Continue? (y/n): y

Please convert signed binary pattern 11110000 of sign-magnitude to decimal representation: -112

Exellent!

Continue? (y/n): n

Name: Adrian Lozada

You have completed 5 conversions of signed binary of sign-magnitude to decimal.

You have done 5 correctly.

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Please select the practice item: 11

Please convert signed binary pattern 01100001 of 1's complement to decimal representation: 97

Exellent!

Continue? (y/n): y

Please convert signed binary pattern 01010111 of 1's complement to decimal representation: 87

Exellent!

Continue? (y/n): y

Please convert signed binary pattern 10111101 of 1's complement to decimal representation: -66

Exellent!

Continue? (y/n): y

Please convert signed binary pattern 01101111 of 1's complement to decimal representation: 111

Exellent!

Continue? (y/n): y

Please convert signed binary pattern 01111111 of 1's complement to decimal representation: 127

Exellent!

Continue? (y/n): n

Name: Adrian Lozada

You have completed 5 conversions of signed binary of 1's complement to decimal.

You have done 5 correctly.

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Please select the practice item: 12

Please convert signed binary pattern 11110100 of 2's complement to decimal representation: -12

Exellent!

Continue? (y/n): y

Please convert signed binary pattern 00100001 of 2's complement to decimal representation: 33

Exellent!

Continue? (y/n): y

Please convert signed binary pattern 10101110 of 2's complement to decimal representation: -82

Exellent!

Continue? (y/n): y

Please convert signed binary pattern 10001010 of 2's complement to decimal representation: -118

Exellent!

Continue? (y/n): y

Please convert signed binary pattern 00011001 of 2's complement to decimal representation: 25

Exellent!

Continue? (y/n): n

Name: Adrian Lozada

You have completed 5 conversions of signed binary of 2's complement to decimal.

You have done 5 correctly.