

1 USER INFORMATION

Hexadecimal calculator was designed in HTML. It consists of 3 labels and 3 textboxes.

Binary	<input type="text" value="0"/>
Decimal	<input type="text" value="0"/>
Hexadecimal	<input type="text" value="0"/>

1.1 Input and output

A user can give input in any 3 of textboxes. Based on given input number format the output will be generated in the corresponding boxes.

Binary	<input type="text" value="1011"/>	→	Input
Decimal	<input type="text" value="11"/>	←	
Hexadecimal	<input type="text" value="B"/>	←	Output

If user give binary number as input, it displays output in decimal and hexadecimal number.

1.1.1 Binary to Decimal and Hexadecimal

In binary textbox it allows only binary digits (1011.1011) and accepts only one decimal point.

Binary	<input type="text" value="1001.1101"/>
Decimal	<input type="text" value="9.8125"/>
Hexadecimal	<input type="text" value="9.D"/>

It can convert binary number format to decimal and hexadecimal number format.

Binary	<input type="text" value="-1101"/>
Decimal	<input type="text" value="-13"/>
Hexadecimal	<input type="text" value="-D"/>

It can convert negative binary number to negative decimal format and negative hexadecimal format

1.1.2 Decimal to Binary and Hexadecimal

In decimal textbox it allows only numbers (decimal and non-decimal) and it accepts only one decimal point.

Binary	100011.101000010100011110101110000101000111
Decimal	35.63
Hexadecimal	23.A147AE147AE15

It can convert decimal number format to binary and hexadecimal number format.

Binary	-1001000.0110011001
Decimal	-72.4
Hexadecimal	-48.666666666666686

It can convert negative decimal number format to negative binary and negative hexadecimal format.

1.1.3 Hexadecimal to Binary and Decimal

In hexadecimal textbox it allows only 6 alphabets(A,B,C,D,E,F) and numbers (decimal and non-decimal).It also accepts only one decimal point.

Binary	111101010111100.01001101
Decimal	31420.300781250004
Hexadecimal	7ABC.4D

It can convert hexadecimal number format to binary and decimal number format.

Binary	-10100.1010101111
Decimal	-20.670898437500004
Hexadecimal	-14.ABC

It can convert negative hexadecimal number format to negative binary and negative decimal number format.