

#### 4.

### Terminology Index:

Some terms are defined in the following sections:  
[unary](#)  
[bit](#)  
[unsigned](#)  
[significant](#)  
[LSB](#)  
[MSB](#)  
[width](#)  
[huge](#)  
[byte](#)  
[word](#)  
[nibble](#)  
[sign bit](#)  
In the context of numbers:  
[twos complement](#)  
In the context of floating point numbers:  
[fixed point](#)  
[floating point](#)  
In the context of strings:  
[concatenation](#)  
In the context of logic:  
[boolean logic](#)  
[truth table](#)

It would be useful to understand:  
addition  
subtraction  
multiplication  
division  
two's complement  
holes  
the number system  
etc.

This section lists some common operators and actions followed by their definitions.

**4.1. Bitwise Operators**  
This section describes the bitwise operators and how they work.

**4.2. Bitwise Operations**

Some basic operations are described below:  
Bitwise AND  
Bitwise OR  
Bitwise NOT  
Bitwise XOR

Definitions:  
A variable is an object that can have different values in a program.  
An expression is a combination of variables and operators.

Addition is the operation of adding two or more numbers.

For example, if we add 1 and 2, the result is 3.

Another example is 1 + 1 = 2.

And another example is 1 + 1 = 2.

This section describes the addition operation. It shows how to add two numbers, for example, 5, 6, and 7. It also shows how to perform addition at a low level, such as writing the numbers in binary form.

If we add 1 and 1, the result is 2. This is because 1 + 1 = 2.

If we add 1 and 1, the result is 2. This is because 1 + 1 = 2.

**4.3. Bitwise Operations**  
As you have seen, the bitwise operations are very useful for manipulating bits.

"11" is a binary representation of the number 3.

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