

# LOGICAL OPERATORS IN OBJECTIVE-C

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Following table shows all the logical operators supported by Objective-C language. Assume variable **A** holds 1 and variable **B** holds 0, then:

Operator	Description	Example
&&	Called Logical AND operator. If both the operands are non-zero, then condition becomes true.	<b>A &amp;&amp; B</b> is false.
	Called Logical OR Operator. If any of the two operands is non-zero, then condition becomes true.	A    B is true.
!	Called Logical NOT Operator. Use to reverses the logical state of its operand. If a condition is true, then Logical NOT operator will make false.	<b>!A &amp;&amp; B</b> is true.

## Example

Try the following example to understand all the logical operators available in Objective-C programming language:

```
#import <Foundation/Foundation.h>

main()
{
    int a = 5;
    int b = 20;
    int c ;

    if ( a && b )
    {
        NSLog(@"Line 1 - Condition is true\n" );
    }
    if ( a || b )
    {
        NSLog(@"Line 2 - Condition is true\n" );
    }
    /* lets change the value of a and b */
    a = 0;
    b = 10;
    if ( a && b )
    {
        NSLog(@"Line 3 - Condition is true\n" );
    }
    else
    {
        NSLog(@"Line 3 - Condition is not true\n" );
    }
    if ( !(a && b) )
    {
        NSLog(@"Line 4 - Condition is true\n" );
    }
}
```

When you compile and execute the above program, it produces the following result:

```
2013-09-07 22:35:57.256 demo[19012] Line 1 - Condition is true
2013-09-07 22:35:57.256 demo[19012] Line 2 - Condition is true
2013-09-07 22:35:57.256 demo[19012] Line 3 - Condition is not true
2013-09-07 22:35:57.256 demo[19012] Line 4 - Condition is true
```

