

OBJECTIVE-C - IF...ELSE STATEMENT

http://www.tutorialspoint.com/objective_c/if_else_statement_in_objective_c.htm

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An **if** statement can be followed by an optional **else** statement, which executes when the boolean expression is false.

Syntax:

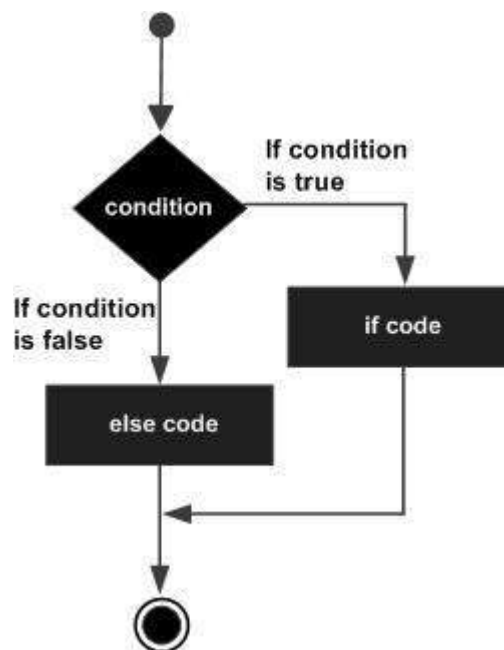
The syntax of an **if...else** statement in Objective-C programming language is:

```
if(boolean_expression)
{
    /* statement(s) will execute if the boolean expression is true */
}
else
{
    /* statement(s) will execute if the boolean expression is false */
}
```

If the boolean expression evaluates to **true**, then the **if block** of code will be executed, otherwise **else block** of code will be executed.

Objective-C programming language assumes any **non-zero** and **non-null** values as **true**, and if it is either **zero** or **null**, then it is assumed as **false** value.

Flow Diagram:



Example:

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

int main ()
{
    /* local variable definition */
    int a = 100;

    /* check the boolean condition */
    if( a < 20 )
    {
        /* if condition is true then print the following */
        NSLog(@"a is less than 20\n" );
    }
}
```

```

else
{
    /* if condition is false then print the following */
    NSLog(@"a is not less than 20\n" );
}
NSLog(@"value of a is : %d\n", a);

return 0;
}

```

When the above code is compiled and executed, it produces the following result:

```

2013-09-07 22:04:10.199 demo[3537] a is not less than 20
2013-09-07 22:04:10.200 demo[3537] value of a is : 100

```

The if...else if...else Statement

An **if** statement can be followed by an optional **else if...else** statement, which is very useful to test various conditions using single if...else if statement.

When using if , else if , else statements there are few points to keep in mind:

- An if can have zero or one else's and it must come after any else if's.
- An if can have zero to many else if's and they must come before the else.
- Once an else if succeeds, none of the remaining else if's or else's will be tested.

Syntax:

The syntax of an **if...else if...else** statement in Objective-C programming language is:

```

if(boolean_expression 1)
{
    /* Executes when the boolean expression 1 is true */
}
else if( boolean_expression 2)
{
    /* Executes when the boolean expression 2 is true */
}
else if( boolean_expression 3)
{
    /* Executes when the boolean expression 3 is true */
}
else
{
    /* executes when the none of the above condition is true */
}

```

Example:

```

#import <Foundation/Foundation.h>

int main ()
{
    /* local variable definition */
    int a = 100;

    /* check the boolean condition */
    if( a == 10 )
    {
        /* if condition is true then print the following */
        NSLog(@"Value of a is 10\n" );
    }
    else if( a == 20 )
    {
        /* if else if condition is true */
    }
}

```

```
        NSLog(@"Value of a is 20\n" );
    }
    else if( a == 30 )
    {
        /* if else if condition is true */
        NSLog(@"Value of a is 30\n" );
    }
    else
    {
        /* if none of the conditions is true */
        NSLog(@"None of the values is matching\n" );
    }
    NSLog(@"Exact value of a is: %d\n", a );

    return 0;
}
```

When the above code is compiled and executed, it produces the following result:

```
2013-09-07 22:05:34.168 demo[8465] None of the values is matching
2013-09-07 22:05:34.168 demo[8465] Exact value of a is: 100
```