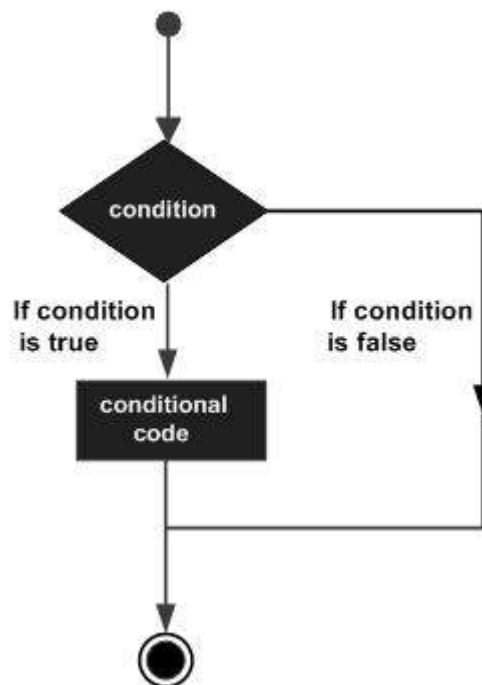


Swift - Decision Making

Decision making structures require that the programmer specifies one or more conditions to be evaluated or tested by the program, along with a statement or statements to be executed if the condition is determined to be **true**, and optionally, other statements to be executed if the condition is determined to be **false**.

Following is the general form of a typical decision making structure found in most of the programming languages –



Swift 4 provides the following types of decision making statements. Click the following links to check their detail.

Sr.No	Statement & Description
1	<p>if statement</p> <p>An if statement consists of a Boolean expression followed by one or more statements.</p>
2	<p>if...else statement</p> <p>An if statement can be followed by an optional else statement, which executes when the Boolean expression is false.</p>
3	<p>if...else if...else Statement</p> <p>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.</p>
4	<p>nested if statements</p> <p>You can use one if or else if statement inside another if or else if statement(s).</p>
5	<p>switch statement</p> <p>A switch statement allows a variable to be tested for equality against a list of values.</p>

The ? : Operator

We have covered **conditional operator ? :** in the previous chapter which can be used to replace **if...else** statements. It has the following general form –

```
Exp1 ? Exp2 : Exp3;
```

Where Exp1, Exp2, and Exp3 are expressions. Notice the use and placement of the colon.

The value of a ? expression is determined like this: Exp1 is evaluated. If it is true, then Exp2 is evaluated and becomes the value of the entire ? expression. If Exp1 is false, then Exp3 is evaluated and its value becomes the value of the expression.