

# JavaScript if else if

**Summary:** In this tutorial, you will learn how to use the JavaScript `if...else...if` statement to check multiple conditions and execute the corresponding block if a condition is `true`.

## Introduction to the JavaScript if else if statement

The `if` and `if...else` statements accept a single condition and execute the `if` or `else` block accordingly based on the condition.

To check multiple conditions and execute the corresponding block if a condition is `true`, you use the `if...else...if` statement like this:

```
if (condition1) {  
  // ...  
} else if (condition2) {  
  // ...  
} else if (condition3) {  
  //...  
} else {  
  //...  
}
```

In this syntax, the `if...else...if` statement has three conditions. In theory, you can have as many conditions as you want to, where each `else...if` branch has a condition.

The `if...else...if` statement checks the conditions from top to bottom and executes the corresponding block if the condition is `true`.

The `if...else...if` statement stops evaluating the remaining conditions as soon as a condition is `true`. For example, if the `condition2` is `true`, the `if...else...if` statement won't evaluate the `condition3`.

If all the conditions are `false`, the `if...else...if` statement executes the block in the `else` branch.

The following flowchart illustrates how the `if...else...if` statement works:

## JavaScript if else if examples

Let's take some examples of using the `if...else...if` statement.

### 1) A simple JavaScript if...else...if statement example

The following example uses the `if...else...if` statement to get the month name from a month number:

```
let month = 6;
let monthName;

if (month == 1) {
  monthName = 'Jan';
} else if (month == 2) {
  monthName = 'Feb';
} else if (month == 3) {
  monthName = 'Mar';
} else if (month == 4) {
  monthName = 'Apr';
} else if (month == 5) {
  monthName = 'May';
} else if (month == 6) {
  monthName = 'Jun';
} else if (month == 7) {
  monthName = 'Jul';
} else if (month == 8) {
  monthName = 'Aug';
} else if (month == 9) {
  monthName = 'Sep';
} else if (month == 10) {
  monthName = 'Oct';
} else if (month == 11) {
  monthName = 'Nov';
} else if (month == 12) {
  monthName = 'Dec';
} else {
  monthName = 'Invalid month';
}

console.log(monthName);
```

Output:

```
Jun
```

In this example, we compare the month with 12 numbers from 1 to 12 and assign the corresponding month name to the `monthName` variable.

Since the month is `6`, the expression `month==6` evaluates to `true`. Therefore, the `if...else...if` statement assigns the literal string `'Jun'` to the `monthName` variable. Therefore, you see `Jun` in the console.

If you change the month to a number that is not between 1 and 12, you'll see the `Invalid Month` in the console because the `else` clause will execute.

## 2) Using JavaScript if...else...if statement to calculate the body mass index

The following example calculates the body mass index (BMI) of a person. It uses the `if...else...if` statement to determine the weight status based on the BMI:

```
let weight = 70; // kg
let height = 1.72; // meter

// calculate the body mass index (BMI)
let bmi = weight / (height * height);

let weightStatus;

if (bmi < 18.5) {
  weightStatus = 'Underweight';
} else if (bmi >= 18.5 && bmi <= 24.9) {
  weightStatus = 'Healthy Weight';
} else if (bmi >= 25 && bmi <= 29.9) {
  weightStatus = 'Overweight';
} else {
  weightStatus = 'Obesity';
}

console.log(weightStatus);
```

Output:

```
Healthy Weight
```

How it works.

- First, declare two variables that hold the weight in kilograms and height in meters. In a real-world application, you'll get these values from a web form.
- Second, calculate the body mass index by dividing the weight by the square of the height.
- Third, determine the weight status based on the BMI using the `if...else..if` statement.
- Finally, output the weight status to the console.

## Summary

- Use the JavaScript `if...else...if` statement to check multiple conditions and execute the corresponding block if a condition is `true`.

## Quiz