

Lecture-02: If Statement in JavaScript

- **Teacher:** Sir Arsalan Shah
- **Typist:** Yousuf Naveed

Introduction to Conditional Statement:

- In this lecture, we will dive into conditional statements in JavaScript, specifically focusing on the `if` statement. Conditional statements allow you to control the flow of your code based on certain conditions.

The If Statement:

- The `if` statement is a fundamental building block of programming. It allows us to execute a block of code only if a specified condition is true.

Syntax:

```
if (condition) {  
    // Code to be executed if the condition is true  
}
```

Example:

```
var age = 18;  
  
if (age >= 18) {  
    document.write("You are an adult.");  
}
```

In this example, the `if` statement checks if the `age` variable is greater than or equal to 18. If the condition is true, it will display "You are an adult."

The `If Else` Statement:

- The `if` statement can be extended with an `else` clause to execute code when the condition is false.

Syntax:

```
if (condition) {  
    // Code to be executed if the condition is true  
} else {  
    // Code to be executed if the condition is false  
}
```

Example:

```
var time = 12;  
  
if (time < 12) {  
    document.write("Good morning!");  
} else {  
    document.write("Good afternoon!");  
}
```

In this example, it will display "Good morning!" if the `time` variable is less than 12; otherwise, it will show "Good afternoon!"

The `If-Else If-Else` Statement:

You can use multiple `else if` clauses to handle multiple conditions.

Syntax:

```
if (condition1) {  
    // Code to be executed if condition1 is true
```

```
} else if (condition2) {  
    // Code to be executed if condition2 is true  
  
} else {  
    // Code to be executed if none of the conditions are true  
}
```

Example:

```
var grade = 75;  
  
if (grade >= 90) {  
    document.write("A Grade");  
} else if (grade >= 80) {  
    document.write("B Grade");  
} else if (grade >= 70) {  
    document.write("C Grade");  
} else {  
    document.write("Fail");  
}
```

This example assigns a grade based on the `grade` variable's value.

Practice and Exploration:

Conditional statements are crucial in programming, allowing you to make decisions in your code. Try experimenting with different conditions and scenarios to get a better grasp of how `if` statements work in JavaScript.

For more details on JavaScript conditional statements and other programming topics,

Visit: <https://www.tutorialsteacher.com/javascript/javascript-if-else-condition/>