if else ladder in js

The "if-else if ladder" is a term used to describe a series of connected **if** and **else if** statements in JavaScript (and in programming languages in general). It's a way to handle multiple conditions and execute different blocks of code based on the outcome of these conditions. The "ladder" analogy comes from the fact that these statements are arranged in a hierarchical manner, resembling the steps of a ladder.

The structure of an "if-else if ladder" looks like this:

if (condition1) {

   // Code to execute if condition1 is true

} else if (condition2) {

   // Code to execute if condition1 is false and condition2 is true

} else if (condition3) {

   // Code to execute if condition1 and condition2 are false and condition3 is true

} else {

   // Code to execute if none of the above conditions are true

}

- The **if** statement checks the first condition. If it's true, the code inside its block is executed, and the rest of the ladder is skipped.

- If the first condition is false, the **else if** statements are checked in order. The first one whose condition is true will have its code executed, and the rest of the ladder is skipped.

- If none of the conditions are true, the code inside the final **else** block is executed.

Here's a simple example using an "if-else if ladder" to determine the grade of a student based on their score:

```
let score = 85;
if (score >= 90)
{   console.log("A"); // Executed if score is 90 or higher
}
else if (score >= 80)
{   console.log("B"); // Executed if score is between 80 and 89
}
else if (score >= 70)
{   console.log("C"); // Executed if score is between 70 and 79
}
else if (score >= 60)
{   console.log("D"); // Executed if score is between 60 and 69
}
else
{   console.log("F"); // Executed if none of the above conditions are met
}
```

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