# Comments in JS

Comments are the messages in the code that are completely ignored by the compiler. It is used to leave messages in any part of code that can explain what code does making it easier to understand.

## Types of Comments

1. **Single line comments (//):**

It is used to leave short messages in a single line of code.

1. **Multi line comments (/\* \*/):**

It is used to leave long messages that might take multiple lines in code.

# Type Conversion

The process of converting data of one type to another type is known as Type Conversion.

## Types of Type Conversion

1. **Implicit Conversion:**

Sometimes JavaScript automatically converts data of one type to another. This is called implicit conversion. When operator + is used with string JavaScript treats the operand as string whereas when operators like -, \*, / or % are used with string, JavaScript convert the strings to number and performs arithmetic operation. Logical operations convert operand into Boolean.

1. **Explicit Conversion:**

The process of converting data of one type to another using built-in functions. Some built-in functions used for explicit conversion are:

* String(value)
* Number(value)
* Boolean(value)
* Object(value)

# if...else Statement

if…else statement is used to execute or block a statement based on certain given conditions.

Based on structure and condition if...else statements can be categorized into following types:

## if Statement:

This statement contains one condition and one action is performed if that condition is satisfied.

## if…else Statement:

This statement contains one condition and two possible. If the condition satisfies, the action inside the if block is performed otherwise action inside else block is executed.

## if…else if…else Statement:

This statement contains two or more than two conditions and corresponding actions. If the first condition is satisfied, the action inside if block is executed. If not, the condition of else if block is checked and if it is satisfied the action inside that block is executed otherwise the condition of next else if block is checked. This continues through all else if blocks and if none of the conditions are satisfied, the action inside else block is performed.

## Nested if…else Statement

When if...else statement is used inside another if…else statement, nested if…else statement is created.

## Ternary Operator

Ternary operator is the operator that is used instead of if…else statement. It is denoted by ‘?:’. Syntax: condition ? expressionIfTrue : expressionIfFalse;