Operators in JS

Spoken Tutorial Project
https://spoken-tutorial.org
National Mission on Education through ICT
https://sakshat.ac.in

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Learning Objectives

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- **Different types of `Operators` in `JS`**

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In this tutorial, we will learn about:

- **Different types of `Operators` in `JS`**
- **Their usage**

System Specifications

This tutorial is recorded using:

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- **Ubuntu Linux OS version 18.04**

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- **Visual Studio Code version 1.51.1 (code editor)**

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This tutorial is recorded using:

- **Ubuntu Linux OS version 18.04**
- **Visual Studio Code version 1.51.1 (code editor)**
- **Firefox Web Browser**

Prerequisites

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- **You should be familiar with writing and executing `JS` files**

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- **If not, please go through the prerequisite tutorials on https://spoken-tutorial.org**

Code Files

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- **Make a copy and then use them for practicing**

Types of Operators

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- **Assignment Operator**

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- **Arithmetic Operators**

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- **Assignment Operator**
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- **Logical Operators**
- **Ternary Operator**

Assignment Operator

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- `=` (Equal to)

Arithmetic Operators

Arithmetic Operators

- `+ (Addition)`

Arithmetic Operators

- `+` (Addition)
- `-` (Subtraction)

Arithmetic Operators

- `+` (Addition)
- `-` (Subtraction)
- `*` (Multiplication)

Arithmetic Operators

- `+` (Addition)
- `-` (Subtraction)
- `*` (Multiplication)
- `/` (Division)

Arithmetic Operators

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- `-` (Subtraction)
- `*` (Multiplication)
- `/` (Division)
- `%` (Modulo)

Comparison Operators

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- `>` (Greater than)

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- `<` (Less than)

Comparison Operators

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- `>=` (Greater than or equal to)

Comparison Operators

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- `==` (Equal to)

Comparison Operators

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- `<=` (Less than or equal to)
- `==` (Equal to)
- `===` (Equal value & equal type)

Comparison Operators

- `>` (Greater than)
- `<` (Less than)
- `>=` (Greater than or equal to)
- `<=` (Less than or equal to)
- `==` (Equal to)
- `===` (Equal value & equal type)
- `!=` (Not equal to)

Logical Operators

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- `&&` (Logical AND)

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- `&&` (Logical AND)
- `||` (Logical OR)

Logical Operators

- `&&` (Logical AND)
- `||` (Logical OR)
- `!` (Logical NOT)

Ternary Operator

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- **A** `condition` **followed by a** `question mark`

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- `Expression 1` **to be executed if the** `condition` **is satisfied followed by a** `colon`

Ternary Operator

`Ternary operator` **takes three operands**

- **A** `condition` **followed by a** `question mark`
- `Expression 1` **to be executed if the** `condition` **is satisfied followed by a** `colon`
- `Expression 2` **to be executed if the** `condition` **is satisfied**

Ternary Operator

- `condition ? exp1 : exp2`

Summary

In this tutorial, we have learnt about:

- Assignment Operator
- Arithmetic Operators
- Comparison Operators
- Logical Operators
- Ternary Operator **in** JS

Assignment

- **Open the file `assignment.js` which you have created earlier**
- **Clear the existing code**
- **Create three `variables a, b` and `c`**
- **Assign two random numbers to `a` and `b`**

Assignment

- **Assign a boolean value to** `c`
- **Only if the sum of** `a` **and** `b` **is more than 20 and,** `c` **is true**
- **Log the sum of** `a` **and** `b`
- **Else log** `unable to display result`

Assignment

- **Open the file `MyPage.html` in a web browser**
- **Observe the output in the browser's `console`**

About the Spoken Tutorial Project

- Watch the video available at https://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- It summarises the Spoken Tutorial project
- If you do not have good bandwidth, you can download and watch it

Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- **Conducts workshops using spoken tutorials**
- **Gives certificates to those who pass an online test**
- **For more details, please write to contact@spoken-tutorial.org**

Forum for Specific Questions

- **Do you have questions in THIS Spoken Tutorial?**
- **Please visit https://forums.spoken-tutorial.org**
- **Choose the minute and second where you have the question**
- **Explain your question briefly**
- **The Spoken Tutorial project will ensure an answer**
- **You will have to register to ask questions**

Acknowledgements

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Thank you

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