



By CODEMIND Technology

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Operators And String Template

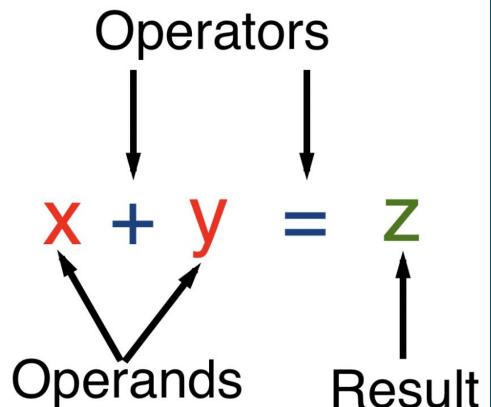
- ★ Why Operators
- ★ Arithmetic Operator
- ★ Assignment Operator
- ★ Comparison Operator
- ★ Logical Operator
- ★ Special Operators
 - Typeof operator
 - Ternary or conditional operator
- ★ Assignments
- ★ String Template
- ★ Assignment String template

Operator and Operands

An operator is a special symbol used to perform operations on

operands that is values and varia

- Unary Operator
- Binary Operator
- Ternary Operator



Different Operators

Arithmetic		Assignment		Comparison		Logical	
+ - * / % ++	Addition Subtraction Multiplication Exponentiation Division Modulus Increment Decrement	= += -= *= /= %=	Assignment Compound addition Compound Subtraction Compound Multiplication Compound Division Compound Modulus	== != !== > < >=	Equal Strict equal Not Equal Strict not equal Greater than Less than Greater than or equal Less than or equal	&& !	AND OR NOT

Other Operators:

- Ternary Operator or conditional operator
- typeof operator

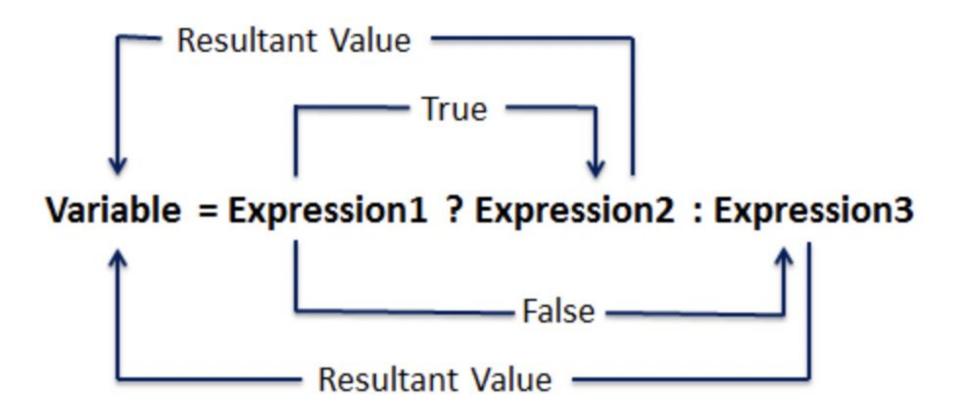
Logical Operators

Logical Operators

- A truth table shows all possible true-false combinations of the terms
- Since && and | | each have two operands, there are four possible combinations of conditions a and b

а	b	a && b	a b		
true	true	true	true		
true	false	false	true		
false	true	false	true		
false	false	false	false		

Conditional Operator or Ternary Operator



What is diff bet == and ===?

- ★ When we use '==' operator Js will try to convert them to the same type and then compare them
- ★ Example "5" == 5 JS converts the "5" to a number 2 before checking if they are equal which is why we get result as true.
- ★ Using '===' operator, it checks whether two numbers are equal by it's value and type as well.

Note: === is most favored instead ==

Examples:

Concatenation

- ★ Using '+' operator
- ★ We can use '+' operator to concat two strings
- ★ Example var result = "I am "+ "Angular Developer";

NaN - Not a Number

- ★ NaN is a number typeof NaN return number
- ★ It is the result of numerical operations where result is not a number o NaN can occur in several ways like
- ★ Converting an invalid value to a number
 Ex. → var fullName = "Hello"; var myNumber = new Number(fullName);
 console.log(myNumber);
- ★ Trying to do arithmetic with a non-numeric string will result in NaN (Not a Number)
- ★ Divide number by zero or zero by zero
- ★ If you use NaN in a mathematical operation, the result will also be NaN

Assignment: Make sure only use ternary operators

- Find the greatest number amongst two number
- 2. Check \rightarrow 29, 44 even or odd numbers and log result on console
- 3. Check \rightarrow Is given number 132 greater than or equal to 132
- 4. Check these numbers are positive or negative -33, 179, 0, 45.89
- 5. If Male and age >=21 then
 - 5.1. Hey boy you are eligible for Marriage else Not eligible for Marriage
- 6. If Female and age>=18 then only
 - 6.1. Hey Girl you are eligible for Marriage else not eligible for marriage
- 7. If you Graduation score is 80% OR HSC 90% then only
 - 7.1. You are eligible for TCS interview. Else Not eligible for interview

Assignment:

- 1. Check out few interesting fact and log result on console with reason:
 - 0 == ' '
 - 0=='0'
 - 0==false
 - null==undefined
 - 1==[1]
 - 1==true
 - 1=='1'
- 2. Swap two variables without using using third variable (Will cover in session)
- 3. Find the greatest number amongst three numbers (Will cover in session)

String template

Use backticks (``) characters to define string template.

Few usage of string template are:

1. In a string putting a word with double quote ""

```
var message = `Hello, Very Good Morning - "Sachin" `;
console.log(message);
```

2. Variable Substitution

```
var firstName = "Codemind";
var lastName = "Technology"
console.log(`First Name: ${firstName} and Last Name: ${lastName}`);
```

Note: `` (backticks) is different than '' (single quote)

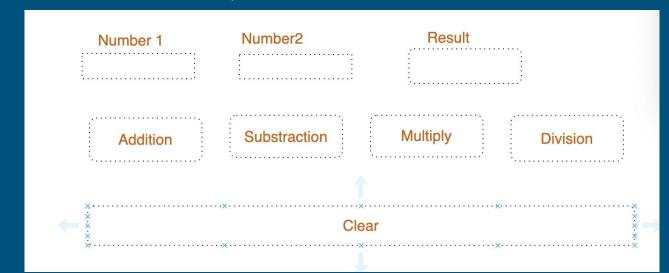
Assignment: To log output on console only use string template

- 1. 'My dream company is "your dream company name" log on console
- Create variables for "My Hobbies are: ", "Your hobby1", "Your hobby2", "Your hobby3"
 - 2.1. Log all hobbies separately
 - 2.2. Concat them in a one sentence and log on console
- 3. Swap two variables without using third variable
 - 3.1. number1= 500; , number2= 700;

Ul Assignments: Use your creativity and experience to design below pages

Note: Deadline is on or before 12th June

- ★ Design a Responsive calculator for addition, subtraction, multiplication and division.
 - Clear button to clear the result and number inputs



Assignment:

- ★ Create your own GitHub account
- ★ Start uploading your code and notes there with concept wise
- ★ Share the GitHub URL link

Thank you



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