

STRING METHODS

AM
DEV

- **length** - The string length method returns the number of characters in a string included empty space.
- **toUpperCase()** - this method changes the string to uppercase letters.
- **toLowerCase()** - his method changes the string to lowercase letters.
- **substr()** - It takes two arguments, the starting index and number of characters to slice.
- **split()** - The split method splits a string at a specified place and returns an array
- **trim()** - Removes trailing space in the beginning or the end of a string.
- **includes()** - It takes a substring argument and it checks if substring argument exists in the string. includes() returns a boolean.
- **replace()** - takes as a parameter the old substring and a new substring.
- **charAt()** - Takes index and it returns the value at that index
- **concat()** - It takes many substring and join them
- **startsWith()** - It takes a substring and it checks if the substring starts with that specific substring.. It returns Boolean
- **endsWith()** - It takes a substring and it checks if the substring ends with that specific substring.. It returns Boolean

ESCAPE SEQUENCES IN STRING

- *\n: new line*
- *\t: Tab, means 8 spaces*
- *\\: Back slash*
- *\': Single quote (')*
- *\": Double quote (")*

MATH OBJECT

- *Math.PI*
- *Math.round()*
- *Math.round()*
- *Math.floor()*
- *Math.ceil()*
- *Math.min()*
- *Math.max()*
- *Math.random()*
- *Math.abs(-10))*
- *Math.sqrt()*
- *Math.pow(3, 2))*

TRUTHY VALUES

- *All numbers(positive and negative) are truthy except zero*
- *All strings are truthy except an empty string ("")*
- *The boolean true*

FALSY VALUES

- *0*
- *null*
- *undefined*
- *NaN*
- *the boolean false*
- *", "", ` , empty string*

OPERATORS

- *Arithmetic Operators*
- *Assignment Operators*
- *Comparison Operators*
- *Logical Operators*
- *Bitwise Operators*
- *Ternary Operators*

- **Arithmetic Operator**

Operator	Description
+	Addition
-	Subtraction
*	Multiplication
**	Exponentiation (ES2016)
/	Division
%	Modulus (Division Remainder)
++	Increment
--	Decrement

• Assignment Operator

Operator	Example	Same As
=	x = y	x = y
+=	x += y	x = x + y
-=	x -= y	x = x - y
*=	x *= y	x = x * y
/=	x /= y	x = x / y
%=	x %= y	x = x % y
**=	x **= y	x = x ** y

• Comparison Operator

Operator	Description
==	equal to
===	equal value and equal type
!=	not equal
!==	not equal value or not equal type
>	greater than
<	less than
>=	greater than or equal to
<=	less than or equal to
?	ternary operator

• Logical Operator

Operator	Description
&&	logical and
	logical or
!	logical not

