Type Conversion Example

Implicit Conversion:

5 (number) + '10' (string) = 510

Here, the number is automatically converted to a string, and concatenation occurs.

Explicit Conversion:

20 (number) + Number('30') (converted string) = 50

Here, we explicitly converted the string '30' to a number using Number(), so we get a numerical addition.

Strict vs. Loose Equality

Value of num: 5

Value of str: '5'

Loose Equality (num == str): true

Strict Equality (num === str): false

String Methods

Length: 31

Trimmed: 'JavaScript String Methods'

Uppercase: JAVASCRIPT STRING METHODS

Lowercase: javascript string methods

Character at index 5: v Includes 'String': true

Replace 'Methods' with 'Examples': JavaScript String Examples

Substring (5, 15): vaScript S

Date Object Methods

Current Date and Time: Tue Sep 17 2024 22:44:21 GMT+0530 (India Standard Time)

Year: 2024 Month: 9 Date: 17

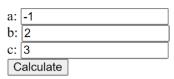
Day of the Week: 2

Hours: 22 Minutes: 44 Seconds: 21

ISO Format: 2024-09-17T17:14:21.044Z **UTC String:** Tue, 17 Sep 2024 17:14:21 GMT

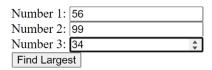
Quadratic Equation Solver

Enter coefficients for $ax^2 + bx + c = 0$



Roots: -1.00 and 3.00

Find the Largest of Three Numbers



The largest number is 99

Weekly Menu

Select a day: Wednesday 🗸

Day	Menu
Wednesday	Chicken Tikka Masala

Calculate the Sum of Three Numbers

Number 1: 3	
Number 2: 99	
Number 3: 11	
Calculate Sum	

Sum of First n Natural Numbers

Enter a number:	6	Calculate

Results

Sum using while loop: 21

Sum using for loop: 21

The sum is: 113

JavaScript Array Methods

Original array: Apple, Banana, Cherry

After push: Apple, Banana, Cherry, Date

After pop: Apple, Banana, Cherry

After unshift: Apricot, Apple, Banana, Cherry

After shift: Apple, Banana, Cherry

Uppercase fruits: APPLE,BANANA,CHERRY

Fruits with more than 5 letters: Banana, Cherry

Variable Scope Example

Inside the function:

Global number: 42

Global string: I am a global string

Local number: 7

Local string: I am a local string

Outside the function:

Global number: 42

Global string: I am a global string

Local number: undefined

Local string: undefined