

# 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  $ax^2 + bx + c = 0$

a:

b:

c:

Roots: -1.00 and 3.00

# Find the Largest of Three Numbers

Number 1:

Number 2:

Number 3:

The largest number is 99

## Weekly Menu

Select a day:

Day	Menu
Wednesday	Chicken Tikka Masala

## Calculate the Sum of Three Numbers

Number 1:

Number 2:

Number 3:

## Sum of First n Natural Numbers

Enter a number:

### 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