```javascript
//camelCase

let userName = "AliceSmith";
let totalPrice = 99.99;
let isAccountActive = true;
let maxLoginAttempts = 3;
let profileImageUrl = "http://example.com/image.jpg";

//under_score_case

let user_name = "AliceSmith";
let total_price = 99.99;
let is_account_active = true;
let max_login_attempts = 3;
let profile_image_url = "http://example.com/image.jpg";
```

STDIN

Input for the program (Optional)

Output:

Program did not output anything!

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PRICING   EDITOR   CHALLENGES   COMPANY & MORE

index.js   +   2.Constant Variable ✏   ✦ AI   NEW   JAVASCRIPT ⌄   RUN ▶

```javascript
1  const pi = 3.14;
2
3  console.log(pi);
4  try {
5      pi = 3.14159;
6  } catch (error) {
7      console.error("Error:", error.message);
8  }
```

STDIN

Input for the program (Optional)

Output:

3.14

Error: Assignment to constant variable.

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PRICING   EDITOR   CHALLENGES   COMPANY & MORE

index.js   3.Accesing ELements ✏️   AI   NEW   JAVASCRIPT ∨   RUN ▶

```javascript
1   // Declare an array of fruits
2   let fruits = ["apple", "banana", "cherry", "date"];
3   //Accessing Elements
4   console.log(fruits[0]);
5   console.log(fruits[2]);
6   //basic array Using push()
7   fruits.push("elderberry");
8   console.log(fruits);
9   //Using unshift()
10  fruits.unshift("fig");
11  console.log(fruits);
12  //Using pop()
13  let lastFruit = fruits.pop();
14  console.log(lastFruit);
15  console.log(fruits);
16  //Using shift()
17  let firstFruit = fruits.shift();
18  console.log(firstFruit);
19  console.log(fruits);
20  //Length of the Array
21  console.log(fruits.length);
22  //Iterating Over the Array
23  for (let i = 0; i < fruits.length; i++) {
24      console.log(fruits[i]);
25  }
26  //Using forEach()
27  fruits.forEach(function(fruit) {
28      console.log(fruit);
29  });
```

STDIN

Input for the program (Optional)

Output:

```
apple
cherry
[ 'apple', 'banana', 'cherry', 'date', 'elderberry' ]
[ 'fig', 'apple', 'banana', 'cherry', 'date', 'elderberry' ]
elderberry
[ 'fig', 'apple', 'banana', 'cherry', 'date' ]
fig
[ 'apple', 'banana', 'cherry', 'date' ]
4
apple
banana
cherry
date
apple
banana
cherry
date
```

```javascript
let number1 = 10;
let number2 = 20;

let sum = number1 + number2;

console.log("The sum of " + number1 + " and " + number2 + " is: " + sum);
```

STDIN

Input for the program (Optional)

Output:

The sum of 10 and 20 is: 30

index.js

5.Areaofacircle ✏️

AI   NEW   JAVASCRIPT ⌄   RUN ▶

```javascript
function calculateCircleArea(radius) {
    const pi = Math.PI;
    const area = pi * Math.pow(radius, 2);
    return area;
}
const radius = 5;
const area = calculateCircleArea(radius);
console.log(`The area of a circle with radius ${radius} is: ${area.toFixed(2)}`);
```

STDIN

Input for the program (Optional)

Output:

The area of a circle with radius 5 is: 78.54

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PRICING   EDITOR   CHALLENGES   COMPANY & MORE

index.js   +   6.Areaofrectangle ✏️   ✦ AI   NEW   JAVASCRIPT ▾   RUN ▶

```javascript
function calculateRectangleArea(length, width) {
    const area = length * width;
    return area;
}
const length = 10;
const width = 5;
const area = calculateRectangleArea(length, width);
console.log(`The area of a rectangle with length ${length} and width ${width} is: ${area}`);
```

STDIN

Input for the program (Optional)

Output:

The area of a rectangle with length 10 and width 5 is: 50

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index.js   +   7.AreaofaTriangle ✏️   AI   NEW   JAVASCRIPT ∨   RUN ▶

```javascript
function calculateTriangleArea(base, height) {
    const area = (base * height) / 2;
    return area;
}
const base = 8;
const height = 5;
const area = calculateTriangleArea(base, height);
console.log(`The area of a triangle with base ${base} and height ${height} is: ${area}`);
```

STDIN

Input for the program (Optional)

Output:

The area of a triangle with base 8 and height 5 is: 20

Basic Calculator

First Number | Second Number

`+` `-` `*` `/`

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PRICING EDITOR CHALLENGES COMPANY & MORE
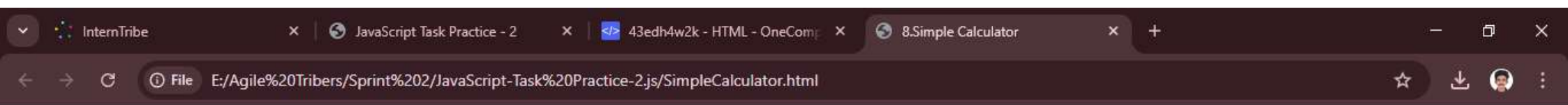
index.js   +   9.Assignment Operators ✏   ✦AI NEW JAVASCRIPT ∨ RUN ▶

```javascript
let number = 10;
console.log(`Initial value: ${number}`);

number += 5;
console.log(`After += 5: ${number}`);

number -= 3;
console.log(`After -= 3: ${number}`);

number *= 2;
console.log(`After *= 2: ${number}`);

number /= 4;
console.log(`After /= 4: ${number}`);
```

STDIN

Input for the program (Optional)

Output:

```
Initial value: 10
After += 5: 15
After -= 3: 12
After *= 2: 24
After /= 4: 6
```
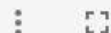
onecompiler.com/javascript/43edhzykf

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index.js

10.Increment and Decrement ✏️

AI   NEW   JAVASCRIPT ⌄   RUN ▶

```javascript
let count = 10;
console.log(`Initial value: ${count}`);
count++;
console.log(`After incrementing: ${count}`);
count--;
console.log(`After decrementing: ${count}`);
count++;
console.log(`After incrementing again: ${count}`);
count--;
console.log(`After decrementing again: ${count}`);
```

STDIN

Input for the program (Optional)

Output:

```
Initial value: 10
After incrementing: 11
After decrementing: 10
After incrementing again: 11
After decrementing again: 10
```

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PRICING   EDITOR   CHALLENGES   COMPANY & MORE

index.js   11.Comparsion Operators ✏️   ✦ AI   NEW   JAVASCRIPT ∨   RUN ▶

```javascript
1  let a = 5;
2  let b = '5';
3  console.log(`a == b: ${a == b}`);
4  console.log(`a != b: ${a != b}`);
5  console.log(`a === b: ${a === b}`);
6  console.log(`a !== b: ${a !== b}`);
7  console.log(`a > b: ${a > b}`);
8  console.log(`a < b: ${a < b}`);
9  console.log(`a >= b: ${a >= b}`);
10 console.log(`a <= b: ${a <= b}`);
```

STDIN

Input for the program (Optional)

Output:

a == b: true
a != b: false
a === b: false
a !== b: true
a > b: false
a < b: false
a >= b: true
a <= b: true

onecompiler.com/javascript/43edhzykf

index.js   +   12.Boolean Variables ✏️   AI   NEW   JAVASCRIPT ⌄   RUN ▶
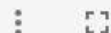
```javascript
1  let isSunny = true;
2  let isWeekend = false;
3
4  console.log(`isSunny && isWeekend: ${isSunny && isWeekend}`);
5  console.log(`isSunny || isWeekend: ${isSunny || isWeekend}`);
6  console.log(`!isSunny: ${!isSunny}`);
7  console.log(`!isWeekend: ${!isWeekend}`);
8  console.log(`isSunny && !isWeekend: ${isSunny && !isWeekend}`);
9  console.log(`!isSunny || isWeekend: ${!isSunny || isWeekend}`);
```

STDIN

Input for the program (Optional)

Output:

```
isSunny && isWeekend: false
isSunny || isWeekend: true
!isSunny: false
!isWeekend: true
isSunny && !isWeekend: true
!isSunny || isWeekend: false
```

```javascript
let a = 5;
let b = 10;

console.log(`Before swapping: a = ${a}, b = ${b}`);
let temp = a;
a = b;
b = temp;

console.log(`After swapping: a = ${a}, b = ${b}`);
```

STDIN

Input for the program (Optional)

Output:

Before swapping: a = 5, b = 10
After swapping: a = 10, b = 5

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PRICING   EDITOR   CHALLENGES   COMPANY & MORE

index.js   +   14.find the average ✏️   AI   NEW   JAVASCRIPT ∨   RUN ▶

```javascript
function calculateAverage(numbers) {
    if (numbers.length === 0) {
        return 0;
    }
    let sum = 0;
    for (let i = 0; i < numbers.length; i++) {
        sum += numbers[i];
    }
    let average = sum / numbers.length;
    return average;
}
const numbers = [10, 20, 30, 40, 50];
const average = calculateAverage(numbers);
console.log(`The average of the given numbers is: ${average}`);
```

STDIN

Input for the program (Optional)

Output:

The average of the given numbers is: 30

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PRICING   EDITOR   CHALLENGES   COMPANY & MORE

index.js   +   15.Add2No ✏️   ✦ AI   NEW   JAVASCRIPT ⌄   RUN ▶ ⋮ ⛶

```javascript
1  let a = 10;
2  let b = 30;
3  let c = 12;
4  let d = 3;
5
6  let result = ((a + b) * c) / d;
7
8  console.log(`The result of ((${a} + ${b}) * ${c}) / ${d} is: ${result}`);
```

STDIN

Input for the program (Optional)

Output:

The result of ((10 + 30) * 12) / 3 is: 160

```javascript
let tamil = 85;
let english = 90;
let maths = 95;
let science = 88;
let social = 92;
let totalMarks = tamil + english + maths + science + social;
let averageMarks = totalMarks / 5;
console.log(`Total Marks: ${totalMarks}`);
console.log(`Average Marks: ${averageMarks.toFixed(2)}`);
```

Output:

```
Total Marks: 450
Average Marks: 90.00
```