

main.js

Run

```
1 console.log("Good night!");
2 console.log(2000);
```

Output

node /tmp/VwNHD6TUZg.js

Good night!

2000

main.js

Run

Clear

```
1 let trafficLight = "green";
2 let message = ""
3
4 switch (trafficLight) {
5   case "red":
6     message = "Stop immediately.";
7     break;
8   case "yellow":
9     message = "Prepare to stop.";
10    break;
11   case "green":
12     message = "Proceed or continue driving.";
13     break;
14   default:
15     message = "Invalid traffic light color.";
16 }
17
18 console.log(message)
19
20 // Output: Proceed or continue driving.
21
```

Output

node /tmp/rvZZKZ00hU.js

Proceed or continue driving.

main.js

Run

```
1 let x = 11;
2
3 // logical AND
4 console.log((x < 5) && (x > 0)); // true
5 console.log((x < 5) && (x > 6)); // false
6
7 // logical OR
8 console.log((x > 2) || (x > 5)); // true
9 console.log((x > 3) || (x < 0)); // false
10
11 // logical NOT
12 console.log(!(x == 3)); // false
13 console.log(!(x < 2)); // true
```

Output

node /tmp/WLGMQF9C2j.js

false

false

true

true

true

true

main.js

Run

```
1 // Program to print variable values
2
3 // store value in greet variable
4 const greet = "Happy birth day ";
5
6 console.log(greet);
```

Output

node /tmp/i6KhfDyj1b.js

Happy birth day

main.js

Run

```
1 let x = 10;
2
3 console.log("x + 5 =", x + 5);
4 console.log("x - 5 =", x - 5);
5 console.log("x * 5 =", x * 5);
6 console.log("x / 5 =", x / 5);
7 console.log("x % 5 =", x % 5);
8 console.log("x ** 5 =", x ** 4);
```

Output

node /tmp/8ZB3ZlIdb6.js

x + 5 = 15

x - 5 = 5

x * 5 = 50

x / 5 = 2

x % 5 = 0

x ** 5 = 10000

main.js

Run

```
1 let x = 20;
2
3 console.log("Prefix Increment: ++x =", ++x);
4 console.log("Postfix Increment: x++ =", x++);
5 console.log("After Postfix Increment: x =", x);
6
7 console.log("\nPrefix Decrement: --x =", --x);
8 console.log("Prefix Decrement: x-- =", x--);
9 console.log("After Prefix Decrement: x =", x);
```

Output

node /tmp/4EBcVy6tS2.js

Prefix Increment: ++x = 21

Postfix Increment: x++ = 21

After Postfix Increment: x = 22

Prefix Decrement: --x = 21

Prefix Decrement: x-- = 21

After Prefix Decrement: x = 20

main.js	<div><div></div><div></div><div>Run</div></div>	Output
<pre>1 // assignment operator 2 let a = 10; 3 console.log(a); // 10 4 5 // addition assignment operator 6 a += 5; // a = a + 5 7 console.log(a); // 15 8 9 // subtraction assignment operator 10 a -= 5; // a = a - 5 11 console.log(a); // 10 12 13 // multiplication assignment operator 14 a *= 2; // a = a * 2 15 console.log(a); // 20 16 17 // division assignment operator 18 a /= 2; // a = a / 2 19 console.log(a); // 10 20 21 // remainder assignment operator 22 a %= 2; // a = a % 2 23 console.log(a); // 1 24 25 // exponentiation assignment operator 26 a **= 2; // a = a**2 27 console.log(a); // 1</pre>	<pre>node /tmp/Mri83Ep5L7.js 10 15 10 20 10 0 0 </pre>	

main.js	<div><div></div><div></div><div>Run</div></div>	Output
<pre>1 // concatenation operator 2 let str = "Hel" + "lo"; 3 console.log(str); 4 5 str += " Earth"; // str = str + " Earth" 6 console.log(str);</pre>	<pre>node /tmp/AxQcXEC9K0.js Hello Hello Earth </pre>	

	<div><div></div><div></div><div>Run</div></div>	Output
<pre>1 // Program to check if the number is positive 2 3 const number = prompt("Enter a number: "); 4 5 // check if number is greater than 0 6 if (number > 0) { 7 // the body of the if statement 8 console.log("positive number"); 9 } 10 1 console.log("nice job");</pre>	<pre>node /tmp/bJ9zkTbC6b.js Enter a number: 1 positive number nice job</pre>	

	<div><div></div><div></div><div>Run</div></div>	Output
<pre>1 // Program to find sum of positive numbers 2 3 let num = 0, sum = 0; 4 5 while (num >= 0) { 6 7 // add all positive numbers 8 sum += num; 9 10 // take input from the user 11 num = parseInt(prompt("Enter a number: ")); 12 13 // loop breaks if num is negative 14 } 15 16 // last, display sum 17 console.log(`The sum is \${sum}`);</pre>	<pre>node /tmp/dVK6DQ4GvI.js Enter a number: 5 Enter a number: 6 Enter a number: 12 Enter a number: 0 Enter a number: The sum is 23 </pre>	

main.js

Run

```
1 // program to calculate positive numbers only
2 // if the user enters a negative number, that number is skipped from calculation
3
4 // negative number -> loop terminate
5 // non-numeric character -> skip iteration
6
7 let sum = 0;
8 let number = 0;
9
10 while (number >= 0) {
11
12     // add all positive numbers
13     sum += number;
14
15     // take input from the user
16     number = parseInt(prompt('Enter a number: '));
17
18     // continue condition
19     if (isNaN(number)) {
20         console.log('You entered a string.');
```

Output

node /tmp/Xj945v8bhR.js
Enter a number: 45
Enter a number: 12
Enter a number: 96
Enter a number: good
You entered a string.
Enter a number: 0
Enter a number:
You entered a string.
Enter a number: 69
Enter a number: 100
Enter a number: -50
The sum is 322.
|