2024/9/18

```
// assign 5 to variable score
let score = 5;
console.log(score); // 5

// change the value of score to 3
score = 12;
console.log(score); // 3
```

```
node /tmp/CJVCZ8I8KP.js
5
12
```

```
> var x=5;
< undefined
> console.log(x)
  5
< undefined
> x=11;
< 11
> x=100;
< 100
>
```

2024/9/25

```
console.log("Good Night!");
console.log(5000);
console.log("==^.^==");
console.log("~~*.*~~")
```

```
node /tmp/COoag9wmrC.js
Good Night!
5000
==^.^==
~~*.*~~
```

```
> console.log("how are you?");
  how are you?
< undefined
> console.log("Hello! My name is Chen Sin Rui");
  Hello! My name is Chen Sin Rui
< undefined
> console.log("I like play game with my friends");
  I like play game with my friends
< undefined
>
```

```
// string enclosed within single quotes
let fruit = 'orange';
console.log(fruit)

// string enclosed within double quotes
let country = "Malaysia";
console.log(country);

// string enclosed within backticks
let result = `fail`;
console.log(result);
```

```
node /tmp/zXTE89dd7e.js
orange
Malaysia
fail
```

```
// integer value
let integer_number = -88;
console.log(integer_number);

// floating-point value
let float_number = 8.88;
console.log(float_number);
```

```
node /tmp/7OFjhzK4WL.js
-88
8.88
```

```
// BigInt value
let value1 = 900719925124769999n;

// add two big integers
let result1 = value1 + 1n;
console.log(result1);  // "900719925124770000n"

let value2 = 900719925124769999n;
```

```
node /tmp/5lFuH7nUOp.js
900719925124770000n
```

2024/10/16

```
// same value, same type
console.log(7 == 7);  // true

// same value, different type
console.log(8 == "8");  // true

// different values, same type
console.log("apple" == "Apple");  // false
```

```
node /tmp/9jg3R9UjE9.js
true
true
false
```

```
let score = 60;

// check if score is fifty or greater
if (score >= 50) {
    console.log("You passed the examination.");
}
else {
    console.log("You failed the examination.");
}

// Output: You failed the examination.
```

```
node /tmp/GvtyijS2kw.js
You passed the examination.
```

```
// Program to check if the number is positive

const number = prompt("Enter a number: ");

// check if number is greater than 0
if (number > 0) {
    // the body of the if statement
    console.log("positive number");
}

console.log("nice number");
```

```
node /tmp/88SaU9b1Mw.js
Enter a number: 6
positive number
nice number
```

```
for (let i = 0; i < 6; i++) {
    console.log("Hello, world!");
}

// Output:
// Hello, world!
// Hello, world!
// Hello, world!
```

```
node /tmp/lCD7mxfIjn.js
Hello, world!
Hello, world!
Hello, world!
Hello, world!
Hello, world!
Hello, world!
```

```
for (let i = 1; i < 7; i++) {
    console.log(i);
}
```

```
node /tmp/M4UJpe8KUy.js
1
2
3
4
5
6
```

```
// program to display the sum of natural numbers

let sum = 0;
const n = 55

// loop from i = 1 to i = n
// in each iteration, i is increased by 1
for (let i = 1; i <= n; i++) {
    sum += i;  // sum = sum + i
}

console.log(`sum: ${sum}`);

// Output: sum: 5050
```

```
node /tmp/BBGMfC6WRc.js
sum: 1540
```

2024/10/23

```
// initialize variable i
let i = 1;

// loop runs until i is less than 4
while (i < 20) {
    console.log(i);
    i += 1;
}
```

```
node /tmp/4NMiDstmrR.js
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
```