2024/09/18

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

// change the value of score to 7
score = 7;
console.log(score); // 7

// change the value of score to 23
score = 23;
console.log(score); // 23
```

```
node /tmp/7PKD7jTj8r.js
5
7
23
```

```
> var x=7;
<· undefined
> console.log(x);
  7
<· undefined
> x=17;
<· 17
> x=2024;
<· 2024
> |
```

2024/9/25

```javascript
console.log("Good Evening!");
console.log(3000);
```

```
node /tmp/b3sBvodIlF.js
Good Evening!
3000
```

```
console.log("Hello!I am student in CHU.How are you?");
Hello!I am student in CHU.How are you?                          VM394:1
undefined
console.log("I am fine,thank you.And you?")
I am fine,thank you.And you?                                    VM519:1
undefined
```

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

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

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

```
node /tmp/lrsAExouRw.js
Orange
China
fail
```

```javascript
// integer value
let integer_number = -2;
console.log(integer_number);

// floating-point value
let float_number = 3.1415926;
console.log(float_number);
```

```
node /tmp/RAUVhrYgbt.js
-2
3.1415926
```

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```javascript
1  // same value, same type
2  console.log(123 == 123);  // true
3
4  // same value, different type
5  console.log(456 == "456");  // true
6
7  // different values, same type
8  console.log("hello.world" == "Hello.world");  // false
```

node /tmp/1OgQxpzN1l.js
true
true
false

```javascript
1  let score = 60;
2
3  // check if score is fifty or greater
4  if (score >= 60) {
5      console.log("You passed the examination.");
6  }
7  else {
8      console.log("You failed the examination.");
9  }
10
11  // Output: You failed the examination.
```

node /tmp/6ndiJzHxFQ.js
You passed the examination.

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

node /tmp/i35xdLJdhF.js
Enter a number: 60
positive number
nice number

```javascript
1  for (let i = 1; i < 6; i++) {
2      console.log("Hello, world!");
3  }
4
5  // Output:
6  // Hello, world!
7  // Hello, world!
8  // Hello, world!
```

node /tmp/uSkCSNyZVL.js
Hello, world!
Hello, world!
Hello, world!
Hello, world!
Hello, world!

```javascript
1  for (let i = 1; i < 10; i++) {
2      console.log(i);
3  }
```

node /tmp/kRT5fa4GrG.js
1
2
3
4
5
6
7
8
9

```javascript
1  // program to display the sum of natural numbers
2
3  let sum = 0;
4  const n = 50
5
6  // loop from i = 1 to i = n
7  // in each iteration, i is increased by 1
8  for (let i = 1; i <= n; i++) {
9      sum += i;  // sum = sum + i
10  }
11
12  console.log(`sum: ${sum}`);
13
14  // Output: sum: 1275
```

node /tmp/hpsNRmOyZQ.js
sum: 1275

```
1  // program to display the sum of natural numbers
2
3  let sum = 0;
4  const n = 10
5
6  // loop from i = 1 to i = n
7  // in each iteration, i is increased by 1
8  for (let i = 1; i <= n; i++) {
9      sum += i;  // sum = sum + i
10  }
11
12  console.log(`sum: ${sum}`);
13
14  // Output: sum: 10
```

node /tmp/Up5jAz5sq3.js
sum: 55

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```
1  // initialize variable i
2  let i = 2;
3
4  // loop runs until i is less than 4
5  while (i < 25) {
6      console.log(i);
7      i += 2;
8  }
```

node /tmp/UODvfJkcoa.js
2
4
6
8
10
12
14
16
18
20
22
24

```
1  // program to display the sum of natural numbers
2
3  let sum = 0;
4  const n = 10
5
6  // loop from i = 1 to i = n
7  // in each iteration, i is increased by 1
8  for (let i = 1; i <= n; i++) {
9      sum += i;  // sum = sum + i
```

node /tmp/Up5jAz5sq3.js
sum: 55