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2024/09/18

```
1  // assign 5 to variable score
2  let score = 5;
3  console.log(score); // 5
4
5  // change the value of score to 3
6  score = 6;
7  console.log(score); // 3
```

```
node /tmp/zN38YhIt2L.js
5
6
```

```
> var x=7
< undefined
> console.log(x)
  7
< undefined
> x=11
< 11
> x=100;
< 100
```

2024/09/25

```
// store value in greet variable
const greet = "Good morning";

// print the value of greet variable
console.log(greet);
```

```
node /tmp/SWCSBAwFvS.js
Good morning
```

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

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

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

```
node /tmp/aAXhHJ84Ha.js
strawberry
Canada
success

=== Session Ended. Please Run the code again ===
```

```
// integer value
let integer_number = -8;
console.log(integer_number);

// floating-point value
let float_number = 14;
console.log(float_number);
```

```
node /tmp/6kIE9qe5Gb.js
-8
14
```

```
// BigInt value
let value1 = 900719925124740990n;

// add two big integers
let result1 = value1 + 1n;
console.log(result1);  // "900719925124740997n"

let value2 = 900719925124740995n;
```

```
node /tmp/NbuUDNA6HN.js
900719925124740991n
```

2024/10/16

```
1  // same value, same type
2  console.log(7 == 3);  // true
3
4  // same value, different type
5  console.log(1 == "1");  // true
6
7  // different values, same type
8  console.log("hat" == "Hair");  // false
```

```
node /tmp/Br3Lk4ZqBK.js
false
true
false
```

```
1  let score = 64;
2
3  // check if score is fifty or greater
4  if (score >= 50) {
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/bF4r9cm3Zs.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/GqYonO9kiN.js
Enter a number: 62
positive number
nice number
```

```
for (let i = 1; i < 5; i++) {
    console.log("Hello, world!");
}

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

```
node /tmp/vgPQ30nL3v.js
Hello, world!
Hello, world!
Hello, world!
Hello, world!
```

```
for (let i = 3; i < 8; i++) {
    console.log(i);
}
```

```
node /tmp/YNL4tNBiKn.js
3
4
5
6
7
```

```
1  // program to display the sum of natural numbers
2
3  let sum = 50;
4  const n = 200
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: 5050
```

```
node /tmp/TJ3xyC3Qvb.js
sum: 20150
```

2024/10/23

```
1  // initialize variable i
2  let i = 2;
3
4  // loop runs until i is less than 4
5  while (i < 30) {
6      console.log(i);
7      i += 2;
8  }
```

```
node /tmp/SWIHo6WBIh.js
2
4
6
8
10
12
14
16
18
20
22
24
26
28
```