<!--! Number methods -->

- 1. isFinite
- 2. isInteger
- isNaN
- 4. parseInt
- parseFloat

1. Number.isFinite(value)

- Description:

Determines whether the provided value is a finite number. This method returns `true` if the value is a finite number, and `false` if it is `Infinity`, `-Infinity`, or `NaN`.

- Example:

```
console.log(Number.isFinite(123)); // true
console.log(Number.isFinite(Infinity)); // false
console.log(Number.isFinite('123')); // false
console.log(Number.isFinite(NaN)); // false
```

2. Number.isInteger(value)

- **Description**: Determines whether the provided value is an integer. This method returns `true` if the value is an integer, and `false` if it is not.

- Example:

```
console.log(Number.isInteger(123)); // true
console.log(Number.isInteger(123.45)); // false
console.log(Number.isInteger('123')); // false
console.log(Number.isInteger(NaN)); // false
```

3. Number.isNaN(value)

- **Description**: Determines whether the provided value is `NaN` (Not-a-Number). This method is a more robust version of the global `isNaN` function and does not coerce the argument to a number before checking.

- Example:

```
console.log(Number.isNaN(NaN)); // true
console.log(Number.isNaN('NaN')); // false
console.log(Number.isNaN(123)); // false
console.log(Number.isNaN(undefined)); // false
```

4. parseInt(string)

- Description:

Parses a string argument and returns an integer.

- Example:

```
console.log(parseInt('123')); // 123
console.log(parseInt('123abc')); // 123 (ignores 'abc')
console.log(parseInt('abc123')); // NaN
```

5. parseFloat(string)

- Description:

`parseFloat` is a JavaScript function that converts a string into a floatingpoint number.

- Examples:

```
parseFloat('3.14');  // 3.14
parseFloat('3.14abc');  // 3.14 (stops parsing when 'a' is encountered)
parseFloat('abc3.14');  // NaN (not a valid number at the start)
parseFloat(' 42.5 ');  // 42.5 (ignores leading and trailing whitespace)
parseFloat('42.5px');  // 42.5 (stops parsing when 'p' is encountered)
```

```
let num = Number(10)
console.log(num)
console.log(typeof num)
let num2 = Number("10")
console.log(num2)
console.log(typeof num2) //number
let num3 = Number("10abc")
console.log(num3) //NaN
console.log(typeof num3) //number
let num4 = Number.parseInt("10abc")
console.log(num4)
let num5 = Number.parseInt("a4bc10")
console.log(num5)
console.log('----')
let a = prompt("enter one number")
console.log(a)
console.log(typeof a)
let b = Number.parseInt( prompt("enter first number"))
let c = Number.parseInt(prompt("enter second number"))
alert(b+c)
```

```
let num6 = 10000000;
let isFinite = Number.isFinite(num6) // true
console.log(Number.isFinite(2n))  // false (for bigInt)
console.log(isFinite)
console.log(Number.isFinite("hello"))  // false (for string)
console.log('----')
let num7 = 1234.98
console.log(Number.isInteger(num7)) // false
console.log(Number.isInteger(2012)) // true
console.log("----")
// only if we pass number then only false , otherwise it will give true
console.log(isNaN(123)) // false
console.log(isNaN("san")) // true
console.log(isNaN(NaN)) // true
console.log(isNaN(2n)) // for bigInt it will give error
console.log("----")
```