Most of the time,
operators and functions automatically convert the values given to them to the right type.

String Conversion:

```
// String Conversion Implicitly
"25" + 56; // '2556'
"25" + null; // '25null'
"Ale " + undefined; // 'Ale undefined'
"25" + false; // '25fasle'

// String Conversion Explicitly
String(23);   // '23'
String(true); // 'true'
String(32 - false);  // '32'
String(32 - true);   // '31'
```

**From the above example, we have conquered that the + operator tends to convert the value of different data types into a
string when there is an addition between a string and an operand of a different data type.

Numeric Conversion:
===

```
// Explicit conversion into number
Number(" 12 ");  // 12
Number("-12.34");  // -12.34
Number("\n");   // 0

//null and indefined into a number
Number(null);   // 0
Number(undefined);  // NaN

// Booleans into Number
Number(true); // 1
Number(false); // 0

// Difference between results of the same prompt..
prompt('what is you age?'); // '26'
Number(prompt('what is you age?')); // 26
```

Boolean Conversion:

```
Boolean(2);   // true

// conversion to boolean implicitly in an statement
if(' ') {console.log(`Empty string`)};   // Empty string
```

```
// implicit conversions due to logical operators
!! 2;    // true
'' || 23;  // 23



Boolean('');   // false
Boolean(0);    // false
Boolean(-0);   // false
Boolean(NaN);  // false
Boolean(null);  // false
Boolean(undefined);  // false
Boolean(false);   // false



Explicit type coercion:
-----------------------

let myVar_1 = String(45);
console.log(myVar_1);       // returns '45' as a String

let myVar_2 = String(-45.22);
console.log(myVar_2);       // returns '-45.22' as a String

let myVar_3= String(true);
console.log(myVar_3);       // returns 'true' as a String

let myVar_4 = String(false);
console.log(myVar_4);       // returns 'false' as a String

let myVar_5 = String(null);
console.log(myVar_5);       // returns 'null' as a String

let myVar_6 = String(undefined);
console.log(myVar_6);       // returns 'undefined' as a String



Explicit type coercion:
-----------------------

let myVal1 = Boolean(0);
console.log(myVal1) // returns false

let myVal2 = Boolean('');
console.log(myVal2) // returns false

let myVal3 = Boolean(NaN);
console.log(myVal3) // returns false

let myVal4 = Boolean(false);
console.log(myVal4) // returns false

let myVal5 = Boolean(undefined);
console.log(myVal5) // returns false

let myVal6 = Boolean(null);
console.log(myVal6) // returns false
```

```
let myVal7 = Boolean(23);
console.log(myVal7) // returns true

let myVal8 = Boolean(-23);
console.log(myVal8) // returns true

let myVal9 = Boolean(23.51);
console.log(myVal9) // returns true
```