Variable

Name of memory location that holds data.

By using var Keyword

- Global scope
- Redeclaration & reinitialization possible

```
Var age = 13;
var age = 15;          ✓
```

Using let keyword (in 2015 Esc)

- Block scope
- Redeclaration not allowed

```
let age = 13;
    age = 12;       ✓
let age = 15;        ✗
```

Using const keyword (in 2015 Esc)

- Block scope
- Redeclaration and reinitialization not allowed

```
const age = 12;
      age = 13;        ✗
```

Input of data using dialog box

for String

```
Variable = prompt("Message", "defaultvalue");
```

for Integer

```
Variable = parseInt(prompt("Message", defaultvalue));
```

for float

```
Variable = parseFloat(prompt("Message", default_value));
```

Fetching data from any form element

```
Variablename = document.getElementById("field_id").value
```

```html
<!DOCTYPE html>
<html>
<head>
    <script>
        /*--- Input of numbers from user ----*/
        num1 = parseInt(prompt("Enter first number : ",0));
        num2 = parseInt(prompt("Enter second number : ",0));
        /*--- displaying sum of numbers in alert box --- */
        alert("Sum of "+num1+" and "+num2+" is : "+(num1+num2));
    </script>
</head>
<body>

</body>
</html>
```

Arithmetic operator

- Numeric Calculation
- Generates a numeric result.

(i) Addition (+)

(ii) Difference (-)

(iii) Product (*)

(iv) Division (Quotient) - (/)

(v) Modulo (Remainder) - (%)

Relational Operator

- Used to compare two value
- during comparison, left operand is compared with right operand.
- Generates true or false as a result.

(i) **Greater than (>)** →

$$45 > 90 \qquad \text{false}$$

$$85 > 79 \qquad \text{true}$$

(ii) **Less than (<)**

$$45 < 70 \qquad \text{true}$$

$$75 < 69 \qquad \text{false}$$

(iii) **equals to (==)**

$$25 == 25 \qquad \text{true}$$

$$67 == 29 \qquad \text{false}$$

(iv) **Greater than or equals to (>=)**

$$45 >= 39 \qquad \text{true}$$

$$85 >= 85 \qquad \text{true}$$

$$79 >= 105 \qquad \text{false}$$

(v) Less than or equals to (<=)

$$67 <= 120 \qquad \text{true}$$

$$29 <= 29 \qquad \text{true}$$

$$45 <= 35 \qquad \text{false}$$

(vi) Not equals to (!=)

$$49 != 127 \qquad \text{true}$$

$$29 != 29 \qquad \text{false}$$