# JavaScript - Function Part 2

```
function keyword function name function parameters

function functionName( parm1, parm2, ...) {
    statement1;
    statement2;
    statement3;

return something; } function return
}
```

#### **Hemant Thapa**

#### **ADDITION**

```
In [2]: function sum(a,b){
            var c = a + b
             return c
 In [3]: sum(10,20)
Out[3]: 30
 In [4]: sum(-10, -20)
 Out[4]: -30
 In [5]: function sumOfNumbers(){
            var i, res = 0;
             var number_of_params = arguments.length;
             for (i =0; i<number_of_params; i++){</pre>
                res = res + arguments[i];
             return res;
 In [6]: sumOfNumbers(10, 20, 30)
Out[6]: 60
 In [7]: sumOfNumbers(10, -20, -90)
Out[7]: -100
         SUBTRACTION
 In [8]: function sub(a,b){
             var c = a - b
            return c
 In [9]: sub(10,20)
Out[9]: -10
In [10]: sub(50,5)
Out[10]: 45
         MULTIPLICATION
```

```
In [11]: function multiplication(a,b){
    var c = a * b
    return c
}
```

```
In [12]: multiplication(10,20)
Out[12]: 200
In [13]: multiplication(-30, 70)
Out[13]: -2100
         DIVISION
In [14]: function division(a, b){
            var c = a / b
             return c
In [15]: division(10,2)
Out[15]: 5
In [16]: division(20,-7)
Out[16]: -2.857142857142857
         PRE DEFINE FUNCTIONS
         1. parseInt
In [17]: parseInt('123')
Out[17]: 123
In [18]: parseInt('abc123')
Out[18]: NaN
In [19]: parseInt('123abc')
Out[19]: 123
In [20]: parseInt('FF', 10)
Out[20]: NaN
In [21]: // hexadecimal
         parseInt('FF', 16)
Out[21]: 255
In [22]: parseInt('0377', 10)
Out[22]: 377
In [23]: // octal
         parseInt('0377', 8)
Out[23]: 255
In [24]: parseInt('0377')
Out[24]: 377
In [25]: parseInt('00377')
Out[25]: 377
In [26]: parseInt('0x377')
Out[26]: 887
         2. parseFloat
In [27]: parseFloat('123')
Out[27]: 123
In [28]: parseFloat('1.23')
Out[28]: 1.23
```

```
In [29]: parseFloat('1.23abc.00')
Out[29]: 1.23
In [30]: parseFloat('a.bc123')
Out[30]: NaN
In [31]: parseFloat('12a3.34')
Out[31]: 12
In [32]: parseFloat('123e-2')
Out[32]: 1.23
In [33]: parseFloat('123e2')
Out[33]: 12300
In [34]: parseFloat('1e10')
Out[34]: 1000000000
         3. isNaN
In [35]: isNaN(NaN)
Out[35]: true
In [36]: isNaN(123)
Out[36]: false
In [37]: isNaN(1.23)
Out[37]: false
In [38]: isNaN('abc123')
Out[38]: true
In [39]: isNaN('1.23')
Out[39]: false
In [40]: isNaN('a1.23')
Out[40]: true
         4. isfinite
In [41]: isFinite(-Infinity)
Out[41]: false
In [42]: isFinite(2)
Out[42]: true
In [43]: isFinite(1e308)
Out[43]: true
In [44]: isFinite(1e309)
Out[44]: false
In [45]: isFinite(NaN)
Out[45]: false
         5. eval
In [46]: eval('var ii = 2;')
In [47]: console.log(ii)
```

### Scope of Variables

```
In [1]: // program to print a text
let a = "hello";
function greet () {
    console.log(a);
}
greet(); // hello
hello
```

## **Bubble Sort Algorithms**

```
In [53]: // Example usage:
    var myList = [64, 34, 25, 12, 22, 11, 90];
    bubbleSort(myList);
    console.log(myList);

[
    11, 12, 22, 25,
    34, 64, 90
```