

FUNCTION IN JS

2 TYPES

1) FUNCTION DECLARATION

2) FUNCTION EXPRESSION

1)FUNCTION DECLARATION

```
function geeksforGeeks(paramA, paramB) {  
    // Set of statements  
}
```

```
4.functions.js > ...  
function addition(x, y) {  
    var sum = x + y;  
    return sum;  
}  
  
// type1 of printing  
var ans = addition(5, 5);  
console.log("Sum of x and y is : " + ans);  
  
//type 2 of printing  
console.log(addition(10, 10));  
|
```

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\4.functions.js"  
Sum of x and y is : 10  
20  
  
[Done] exited with code=0 in 0.518 seconds
```

2)FUNCTION EXPRESSION

Function Expression:

It is similar to a function declaration without the function name. Function expressions can be stored in a variable assignment.

Syntax:

```
let geeksforGeeks= function(paramA, paramB) {  
    // Set of statements  
}
```

```
let product = function (x, y) {  
    let product1 = x * y;  
    return product1;  
};  
  
//type1 of printing  
var ans = product(5, 5);  
console.log("multiplication of x and y is : " + ans);  
  
//type 2 of printing  
console.log(product(10, 10));
```

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\4.functions.js"  
multiplication of x and y is : 25  
100  
  
[Done] exited with code=0 in 0.101 seconds
```

HOW TO WRITE FUNCTIONS IN OBJECTS

```
let varshith = {  
  study: function () {  
    return "LOVELY PROFESSIONAL UNIVERSITY";  
  },  
  add: function (x, y) {  
    return x + y;  
  },  
};  
  
console.log(varshith.study());  
console.log(varshith.add(8, 20));
```

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\4.functions.js"  
LOVELY PROFESSIONAL UNIVERSITY  
28
```

OBJECT INSIDE OBJECT

```
let varshith = {  
  hardik: {  
    name: "hardi",  
    subjects: ["telugu", "hindi", "English", "maths", "chemistry"],  
  },  
  study: "cse",  
};  
  
console.log(varshith.hardik.name);  
console.log(varshith.hardik.subjects);  
console.log(varshith.study);
```

```
[Running] node "g:\WEB JAVASCRIPT PRACTICE\4.functions.js"  
hardi  
[ 'telugu', 'hindi', 'English', 'maths', 'chemistry' ]  
cse  
  
[Done] exited with code=0 in 0.126 seconds
```

