



# JavaScript



#### JavaScript: Function

- > A JavaScript function is a block of code designed to perform a particular task.
- A JavaScript function is executed when "something" invokes it (calls it).
- > **JavaScript functions** are used to perform operations. We can call JavaScript function many times to reuse the code.

#### **JavaScript Function Syntax:**

```
function functionName([arg1, arg2, ...argN]){
//code to be executed
}
```



### JavaScript: Function

When a value is passed when declaring a function, it is called **parameter**. And when the function is called, the value passed is called **argument**.

```
// program to add two numbers using a function
// declaring a function
function add(a, b) {
   console.log(a + b);
}

// calling functions
add(3,4);
add(2,9);
```

> you can call a function as many times as you want. You can write one function and then call it multiple times with different arguments.

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### JavaScript: Declaration

- A function declaration also known as a function statement declares a function with a function keyword. The function declaration must have a function name.
- > Function declaration does not require a variable assignment as they are standalone constructs.
- These are executed before any other code.
- > The function in function declaration can be accessed before and after the function definition.
- > The function declaration (function statement) defines a function with the specified parameters.

```
Syntax: function getInfo(paramA, paramB)
{ // Set of statements }
```



## JavaScript: Expression

- > A JavaScript function can also be defined using an expression.
- > A function expression can be stored in a variable:

$$var x = function (a, b) \{return a * b\};$$

Functions stored in variables do not need function names. They are always invoked (called) using the variable name.



### JavaScript: Return Function

- > The return statement can be used to return the value to a function call.
- The return statement denotes that the function has ended. Any code after return is not executed.
- When JavaScript reaches a return statement, the function will stop executing.

```
function add(num1, num2) {
    // code
    return result;
}
let x = add(a, b);
// code
```



# Thank you

