## **Functions**

Reusable blocks of code.

The anatomy of a function declaration:

```
function
          function
 keyword
          name
                         function
                        parameters
function name(param1, param2, ...) {
  statement 1:
  statement 2;
                    function body
  statement 3;
  return ouput;
   return
          function
   keyword
          output
```

# **Description of function syntax**

- The function name and parameters must abide by JavaScript variable naming rules
- · The list of parameters is optional
- The return statement is optional

- If a function doesn't have a return statement, its return value will be undefined
- The function body isn't run until you call the function.
   Syntax: functionName(param1, param2, ...)

# **Examples of functions**

### **Example 1: Function with no parameters**

```
// declare the function
function greetUser() {
  console.log("Hello, user!");
}

// call the function
greetUser();

// 'Hello, user!'
```

#### Example 2: Function with a p arameter

```
// declare the function
function greetUser(name) {
  console.log(`Hello, ${name}!`);
}

// arguments passed to the function are substituted for parameters
greetUser("Elise");
// 'Hello, Elise!'

// if no argument is passed, the parameter will be undefined
greetUser();
// 'Hello, undefined!'
```

#### Example 3: Function with no return value

```
// declare the function
function getFullName(firstName, lastName) {
   return `${firstName} ${lastName}`;
}

// assigning the return value of the function to a variable
const name = getFullName("Elise", "Bouer");

console.log(name);
// 'Elise Bouer'
```