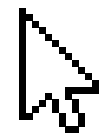
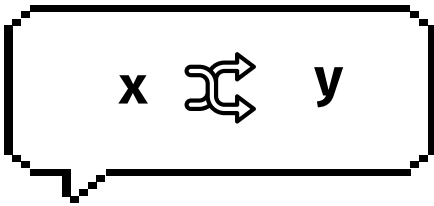




Computer Science : JavaScript



Week 4: Functions



01

Functions



Declaring Functions

```
function greetWorld () {  
  console.log('Hello World')  
};
```



function: call the keyword

Identifier []: name of the function
with parentheses

{function body}: task to be performed



Call Functions

```
function greetWorld () {  
  console.log('Hello World')  
};  
greetWorld();
```



You can call a function to run after you have declared the function. You can do this as many times as you want



Practice

Create your own function and call
it

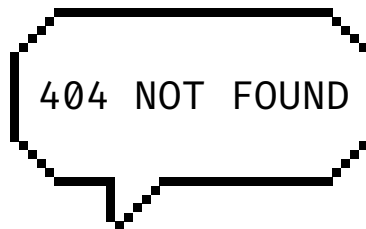




02

Parameters and Arguments

Inputs





Inputs

When declaring a function you can give it specific parameters, so they can use the inputs to perform a specific task. You can have more than one input

```
functionIdentifier(input1, input2, ...)
```





Input Example

```
function rollCall (name) {  
  console.log(`Is ${name} here?`)  
};  
rollCall('Paul');
```





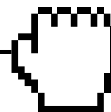
Practice

Create a function with identifier
`shapeVolume`

Set inputs: length, width, height

Set function body: volume formula of a
rectangular prism

Call the function so the output is
equal to 360

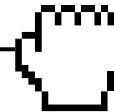




Default parameters

You can give your input default values in the case that the arguments do not pass or are undefined

```
functionIdentifier(input1 = defaultInput)
```





Input Example

```
function rollCall (name = 'everyone') {  
  console.log(`Is ${name} here?`)  
};  
  
rollCall('Paul');  
rollCall();
```





Practice

Create a function with three inputs and each input have a default string parameter

Log a string for each input.

Call the function but only provide 2 inputs. Make sure the inputs are different from the default strings.





IDENTIFIED

03

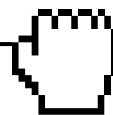
Return



Return

By default in a function will run through the code and evaluate the code properly but will return an output of undefined

To have our value we tell the function in the function body to return a specific value



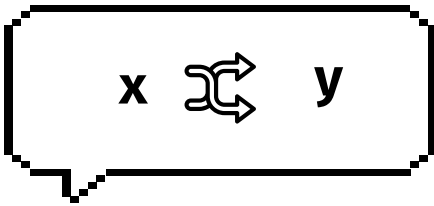


Return Example

```
function rectangleVolume (height, width, length) {  
  let volume = height*width*length;  
  return volume;  
};  
console.log(rectangleVolume(x, y, z));
```



Use the example to return a volume of 210



04

Helper Functions

Function inside a function



Helper Functions

Functions that are used within a function, is known as a helper function





Example Code

```
function multiplyByNineFifths(number) {  
  return number * (9/5);  
};  
  
function getFahrenheit(celsius) {  
  return multiplyByNineFifths(celsius) + 32;  
};
```

Use `getFahrenheit` to find what 25 C in Fahrenheit.

