Functions





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index.js

Function Declaration

// Function declaration

index.js

Function Declaration

```
// Function declaration
function isInputValidDepartment (input) {
}
```

Function Declaration

index.js

```
// Using function
isInputValidDepartment("Engineering"); // true
isInputValidDepartment("Finance"); // false
```

Function Declarations

Function Expressions

Arrow Functions

Arrow Functions

An arrow function expression is a compact alternative to a traditional function expression, with some semantic differences and deliberate limitations in usage.

Arrow Function Syntax

index.js

```
// Function expression
const isDavid = function (name) {
  return (name === "David");
// Multiline arrow function
const isDavid = (name) => {
  return (name === "David");
// Single line arrow function with a parameter
const isDavid = (name) => name === "David";
```

Arrow Function Syntax

index.js

```
// Single line arrow function with no parameters
const lineBreak = () => console.log("");

// Arrow function with multiple parameters
const logArray = (item, index) => {
  console.log(`${index}: ${item}`);
}
```

Iterating Over Arrays with Functions

Filtering Arrays with Functions

Recursion

Recursion

In programming recursion is when you call a function within itself. In doing this, an infinite loop can occur, so this must be done in a way where a function will not call itself continually.

Higher-order Functions

Higher-order Functions

In JavaScript, a higher-order function takes one or more parameters and returns another function as its return value.