ANECO ACADEMY

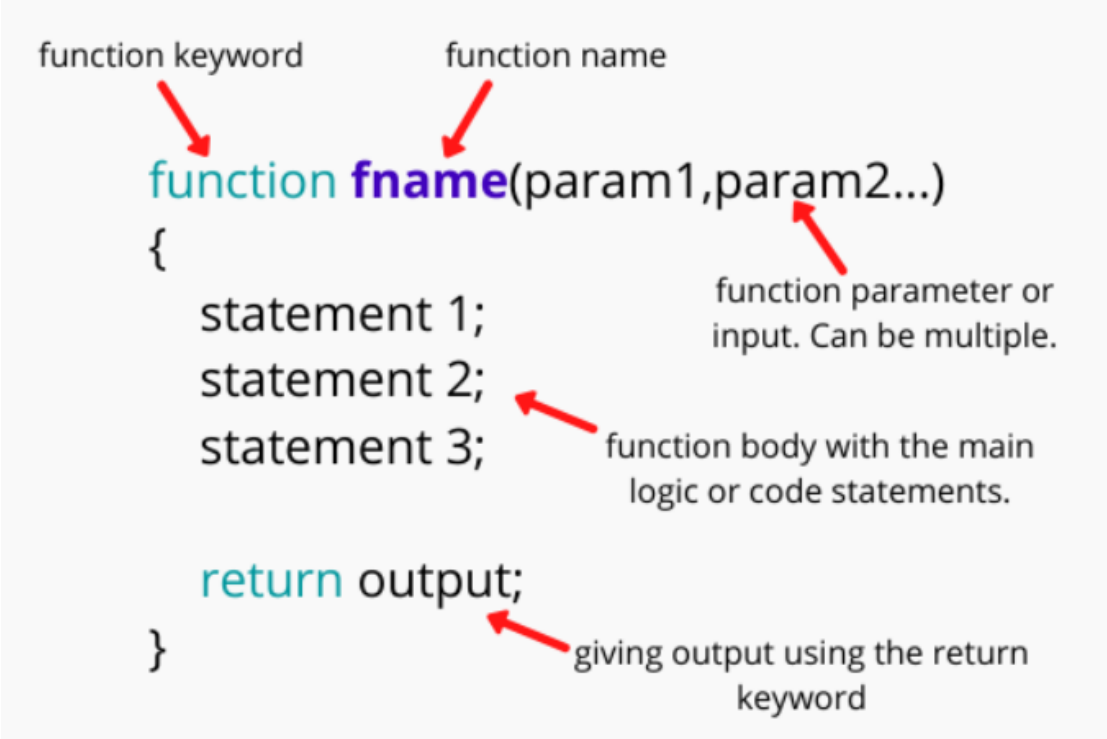
JS-FUNCTION-OBJECT-ARRAY

Function in JS

- A function is a block of code that performs a specific task.

```
//defining a function
function <function-name>()
{
   // code to be executed
};

//calling a function
<function-name>();
```

```
//defining a function
function ShowMessage() {
   alert("Hello World!");
}

//calling a function
ShowMessage();
```



Function in JS

Function with parameters:

```
//defining a function
function ShowMessage(firstName, lastName) {
   alert("Hello " + firstName + " " + lastName);
}

//calling a function
ShowMessage(“Ashok", “Kumar");
```

Function with Return Value:

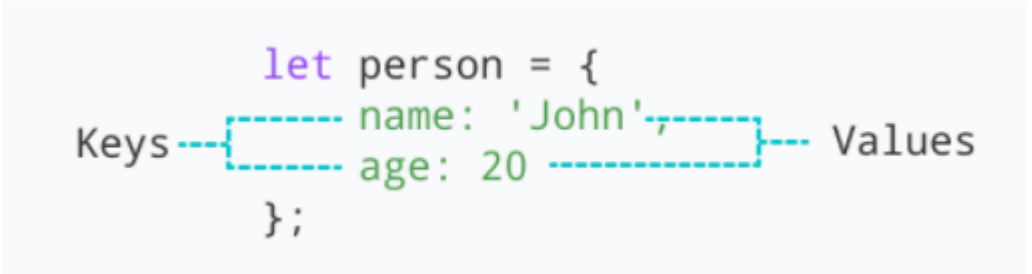
```
//defining a function
function Sum(val1, val2) {
   return val1 + val2;
};

//calling a function
var result = Sum(10,20); // returns 30
```

Object

JavaScript object is a non-primitive data-type that allows you to store multiple collections of data

Syntax:

```
const object_name = {
  key1: value1,
  key2: value2
}
```




```
// object creation
let person = {
   name: 'John',
   age: 20
};
console.log(typeof person); // object
```

"key: value" pairs are called **properties**

Object

Accessing Object Properties:

Syntax:

```
objectName.key
Or
objectName["propertyName"]
```

```
const person = {
   name: 'John',
   age: 20,
};

// accessing property
console.log(person.name); // John

const person = {
   name: 'John',
   age: 20,
};

// accessing property
console.log(person["name"]); // John
```

Array

An array is an object that can store multiple values, create an array is by using an array literal []

Create Array:

Example:

```
// empty array
const myList = [ ];

// array of numbers
const numberArray = [ 2, 4, 6, 8];

// array of strings
const stringArray = [ 'eat', 'work', 'sleep'];

// array with mixed data types
const newData = ['work', 'exercise', 1, true];
```

Access Elements of an Array:

Example:

```
const myArray = ['h', 'e', 'l', 'l', 'o'];

// first element
console.log(myArray[0]);  // "h“

// second element
console.log(myArray[1]); // "e"
```