

I started my javascript Algorithms and Data-structures course today from freeCodeCamp.

In that I have started with basics of javascript and completed the following topics:

## 1. How to write comments

```
// This is an in-line comment.  
/* This is a  
multi-line comment */
```

## 2. Declaring javascript variables

```
var ourName;
```

## 3. Using arithmetic operators

```
Myvar1= 10-5 ; //assigned 5  
myVar = 5 + 10; // assigned 15
```

## 4. Strings:

### a. Declaration

```
var sampleStr ="hello , my name is Nikita!";
```

### b. Concatination

```
var ourStr = "Nikita " + "Behra";  
// ourStr is "Nikita Behra"
```

### c. Appending variables

```
var anAdjective = "awesome!";  
var ourStr = "I am ";  
ourStr += anAdjective;  
// ourStr is now "I am awesome!"
```

#### d. Bracket notations

```
var firstName = "Charles";  
var firstLetter = firstName[0];  
// firstLetter is "C"
```

### 5. Arrays:

#### a. Declaration

```
var sandwich = ["peanut butter", "jelly", "bread"].
```

#### b. Accessing data with indexes

```
var array = [50,60,70];  
array[0]; // equals 50  
var data = array[1]; // equals 60
```

#### c. Modify data with indexes

```
var ourArray = [50,40,30];  
ourArray[0] = 15; // equals [15,40,30]
```

#### d. Manipulate array with push() , pop() , shift() functions

```
var arr1 = [1,2,3];  
arr1.push(4);  
// arr1 is now [1,2,3,4]  
  
var threeArr = [1, 4, 6];  
var oneDown = threeArr.pop();  
console.log(oneDown); // Returns 6  
console.log(threeArr); // Returns [1, 4]  
  
var ourArray = ["Stimpson", "J", ["cat"]];  
var removedFromOurArray = ourArray.shift();  
// removedFromOurArray now equals "Stimpson" and ourArray now  
equals ["J", ["cat"]].
```

### 6. Functions

```
function functionName() {  
  console.log("Hello World");  
}  
  
function testFun(param1, param2) {  
  var param3;  
  param3=param1+param2;  
  console.log(param3);  
}
```

## 7. Conditional statements:

- a. if
- b. else
- c. else if

```
if (num > 15) {  
  return "Bigger than 15";  
} else if (num < 5) {  
  return "Smaller than 5";  
} else {  
  return "Between 5 and 15";  
}
```