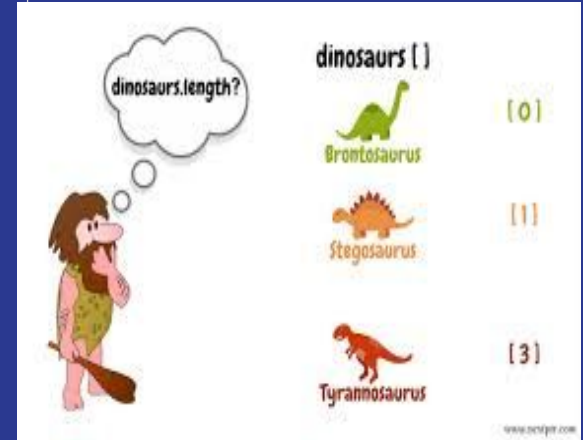Loops, Conditional Statements, Functions, Variables, Parameters, Arrays, Associative Arrays

Arrays in JavaScript

- In JavaScript, array is a single variable that is used to store different elements. It is often used when we want to store list of elements and access them by a single variable. Unlike most languages where array is a reference to the multiple variable, in JavaScript array is a single variable that stores multiple elements.

Access the Elements of an Array

- You access an array element by referring to the index number.

Note: Array indexes start with 0.
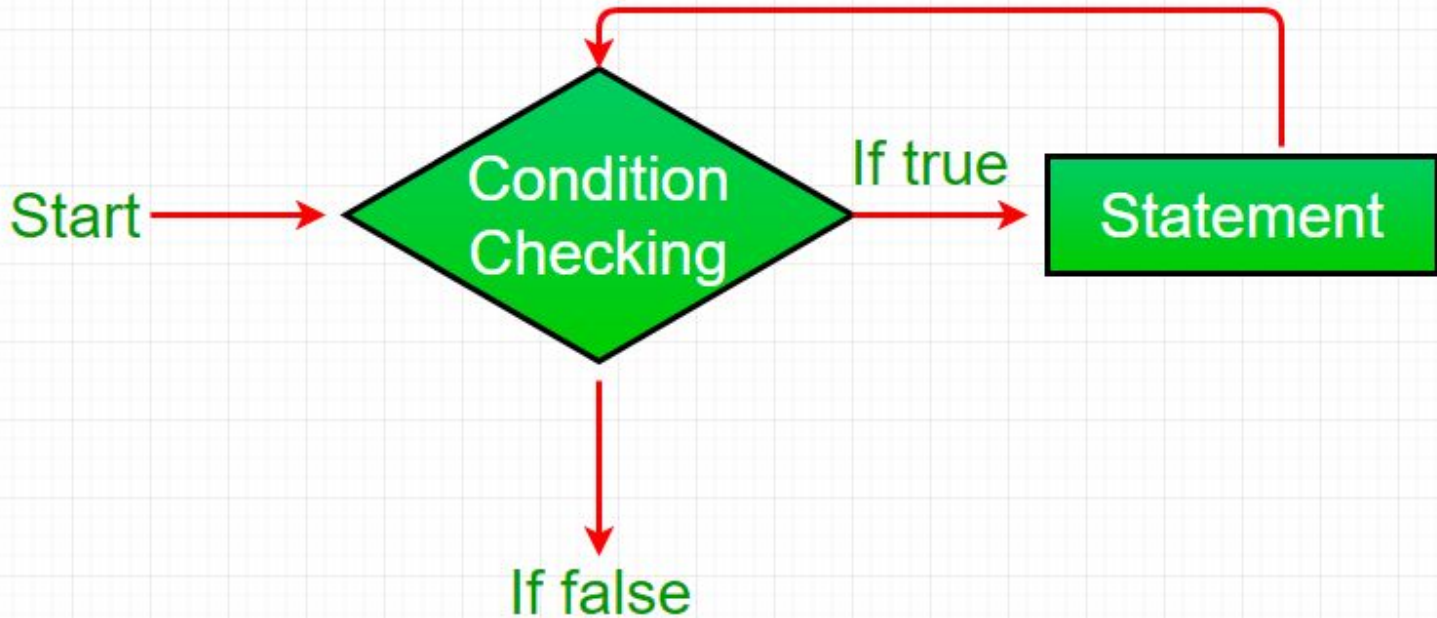
[0] is the first element. [1] is the second element.

Arrays

Name of array → c[0] | −45
c[1] | 6
c[2] | 0
c[3] | 72
c[4] | 1543
c[5] | −89
c[6] | 0
c[7] | 62
c[8] | −3
c[9] | 1
c[10] | 6453
c[11] | 78

Position number (index or subscript) of the element within array c

Fig. 11.1   A 12-element array.

Loops

JavaScript Loops

JavaScript performs several types of repetitive operations, called "looping". Loops are set of instructions used to repeat the same block of code till a specified condition returns false or true depending on how you need it. To control the loops you can use counter variable that increments or decrements with each repetition of the loop.

JavaScript supports different kinds of loops:

➢ **for** - The for statements are best used when you want to perform a loop a specific number of times.
➢ **for/in** - loops through the properties of an object
➢ **while** - The while statements are best used to perform a loop an undetermined number of times.
➢ **do/while** - loops through a block of code while a specified condition is true

Flow of "for" Loop

```
for (initialization ; condition ; increment++/decrement--)
{

    Console.Writeline("Hello World");

}
```

Execute Code

Comes of the loop