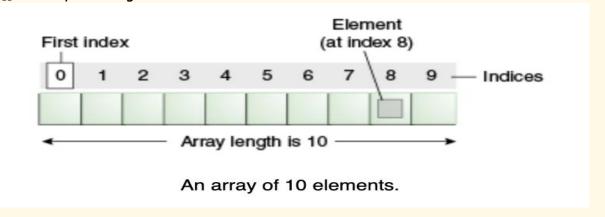
Arrays

An array is a container object that holds a fixed number of values of a single type. Array in Java is index-based, the first element of the array is stored at the 0th index, 2nd element is stored on 1st index and so on.

Declarations:

byte [] anArrayOfBytes; short [] anArrayOfShorts; long [] anArrayOfLongs; float [] anArrayOfFloats; double [] anArrayOfDoubles; boolean [] anArrayOfBooleans; char [] anArrayOfChars; String [] anArrayOfStrings;



Arrays has some advantages and disadvantages:

- We can retrieve or sort the data efficiently
- We can get any data at the index position

The disadvantage is such that the array can store fixed size of elements.

There are two types of arrays

- Single Dimensional {dataType [] arrayname}
- MultiDimensional {dataType [][] arrayname}

Arrays of Objects in Java

Student[] arr = new Student[5]; //student is a user-defined class

ArrayIndexOutOfBoundException

The Java Virtual Machine (JVM) throws an ArrayIndexOutOfBoundsException if length of the array is negative, equal to the array size or greater than the array size while traversing the array.