Rules for Array Instantiation:

- At the time of array initializing an array compulsory we should specify the size otherwise we will get compile time error.
- 2. We can give array size as zero also.
- 3. We can't have negative values as array size.
- 4. The allowed data types to specify array size are byte, short, char, int.
- 5. The maximum allowed array size in java is maximum value of int size.
- 6. Whenever we are creating an array every element is initialized with default value automatically

Note: Anonymous array is an array without reference.

Eg: new int[]{10,20,30}.length;

How to access an array element?

• To access an array element, or a part of the array, you use a number called an index or a subscript.

Difference between length Vs length():

length	length()
It is the final variable applicable only for arrays.	It is a final method applicable for String objects.
It represents the size of the array	It returns the number of characters present in the String
<pre>int[] rollNumber=new int[30]; Syso(rollNumber.length());//error Syso(rollNumber.length);//30</pre>	String s="Java"; Syso(s.length);//error Syso(s.length());//4

Multidimensional Array

```
class Testarray3
public static void main(String args[])
int arr[][]={\{1,2,3\},\{4,5,6\},\{7,8,9\}\};
 for(int i=0;i<3;i++)
  for(int j=0; j<3; j++)
    System.out.print(arr[i][j]+" ");
  System.out.println();
```

```
int[][] a;
int [][]a;
int a[][]; All are valid.(6 ways)
int[] []a;
int[] a[];
int []a[];
```