Initializing an Array

In Single line

The syntax for creating and initializing an array in a single line is as follows:

```
dataType [] arrayRefVar = {value0, value1, ..., value};
```

Example:

```
int [] arr= {1,2,3,4,5,6,7};
```

Using loop

An array can be initialized using a loop.

Example:

```java
import java.io.*;
import java.util.*;

class Example {
    public static void main(String[] args) {
        int[] arr = new int[5];
        Scanner Scan = new Scanner(System.in);
        for (int i = 0; i < arr.length; i++) {
            arr[i] = Scan.nextInt();
        }
    }
}

Input: 2 3 4 5 6
```

Default values for different data types with which an array is initialized

All the arrays' elements after creating arrays are initialized to default values (if we do not initialize them while creating).

Following is a table showing default values for various data_types.

Data Type	Default Value (for fields)
byte	0
short	0
int	0
long	0L
float	0.0f
double	0.0d
char	'\u0000'
String (or any object)	null
boolean	false