```java
package com.Simpli;

//Java program for implementation of QuickSort
class QuickSort
{

 int partition(int arr[], int low, int high)
 {
     int pivot = arr[high];
     int i = (low-1); // index of smaller element
     for (int j=low; j<high; j++)
     {
         if (arr[j] <= pivot)
         {
             i++;

             // swap arr[i] and arr[j]
             int temp = arr[i];
             arr[i] = arr[j];
             arr[j] = temp;
         }
     }

     // swap arr[i+1] and arr[high] (or pivot)
     int temp = arr[i+1];
     arr[i+1] = arr[high];
     arr[high] = temp;

     return i+1;
 }



 void sort(int arr[], int low, int high)
 {
     if (low < high)
     {

         int pi = partition(arr, low, high);


         sort(arr, low, pi-1);
         sort(arr, pi+1, high);
     }
 }
 static void printArray(int arr[])
 {
     int n = arr.length;
     for (int i=0; i<n; ++i)
         System.out.print(arr[i]+" ");
     System.out.println();
 }

 // Driver program
 public static void main(String args[])
 {
     int arr[] = {10, 7, 8, 9, 1, 5};
     int n = arr.length;
```

```
        QuickSort ob = new QuickSort();
        ob.sort(arr, 0, n-1);

        System.out.println("sorted array");
        printArray(arr);
    }
}
```