**package** searchsort;

**import** java.util.Scanner;

**public** **class** Bubble\_sort {

**static** **void** BubbleSort(**int**[] arr) {

/\*\*

\* BubbleSort is a method which performs a bubble sort on a given array.

\* input :

\* int[] arr : input array to perform bubble sort on

\* there is no output in this method, it is an in-place function to perform a bubble sort

\*\*/

**int** len = arr.length;

**int** temp;

**for** (**int** i=0;i<len;i++)

{

**for** (**int** j = 1; j < (len - i); j++)

{

**if** (arr[j - 1] > arr [j])

{

temp = arr [j - 1];

arr[j - 1] = arr[j];

arr[j]=temp;

}

}

}

}

**public** **static** **void** main(String[] args) {

Scanner keyboard = (**new** Scanner(System.***in***));

System.***out***.println("Input the length of the array");

String slen = keyboard.nextLine();

**int** len = Integer.*parseInt*(slen);

**int**[] myarray= **new** **int**[len];

**for** (**int** d=0;d<len;d++) {

System.***out***.println("Input element of the array");

String sel = keyboard.nextLine();

**int** el = Integer.*parseInt*(sel);

myarray[d]=el;

}

System.***out***.print("Origianl array: ");

**for** (**int** q=0;q<myarray.length;q++){

System.***out***.print(myarray[q]+" ");

}

*BubbleSort*(myarray);

System.***out***.println();

System.***out***.print("Sorted array: ");

**for** (**int** q=0;q<myarray.length;q++){

System.***out***.print(myarray[q]+" ");

}

}

}

