**package** searchsort;

**import** java.util.Scanner;

**public** **class** Selection\_Sort {

**public** **static** **void** selectionSort(**int**[] arr) {

**for** (**int** i=0;i<arr.length;i++) {

**int** index = i;

**for** (**int** j=(i+1);j<arr.length;j++) {

**if** (arr[j]<arr[index]) {

index = j;//index is the position of the smallest value

}

}

**int** min=arr[index];

arr[index]=arr[i];

arr[i]=min;

}

}

**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("Original array: ");

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

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

}

*selectionSort*(myarray);

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

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

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

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

}

}

}

