**package** Sorting\_Algorithms;

**public class** InsertionSortAlgorithm {

**public int temp** = 0;

**public int k**=0;

**public void** insertionSort(**int**[] inputArray)

{

**for** (**int** i=1;i<inputArray.**length**;i++)

{

**int** j = i - 1;

**temp** = inputArray[i];

**while** (j>=0 && **temp**<inputArray[j])

{

inputArray[j+1] = inputArray[j];

**k** = j;

j = j - 1;

}

inputArray[j+1] = **temp**;

}

}

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

**int**[] inputArray = {5,4,1,2,7,3,6,9,8,10};

InsertionSortAlgorithm objectInsertion = **new** InsertionSortAlgorithm();

objectInsertion.insertionSort(inputArray);

**for** (**int** i : inputArray)

{

System.***out***.print(i+**" "**);

}

}

}