Writing a program in Java implementing the merge sort algorithm

package practice4;

public class Merge\_Sort {

void merge(int arr[], int l, int m, int r)

{

int n1 = m - l + 1;

int n2 = r - m;

int L[] = new int [n1];

int R[] = new int [n2];

for (int i=0; i<n1; ++i)

L[i] = arr[l + i];

for (int j=0; j<n2; ++j)

R[j] = arr[m + 1+ j];

int i = 0, j = 0;

int k = l;

while (i < n1 && j < n2)

{

if (L[i] <= R[j])

{

arr[k] = L[i];

i++;

}

else

{

arr[k] = R[j];

j++;

}

k++;

}

while (i < n1)

{

arr[k] = L[i];

i++;

k++;

}

while (j < n2)

{

arr[k] = R[j];

j++;

k++;

}

}

void sort(int arr[], int l, int r)

{

if (l < r)

{

int m = (l+r)/2;

sort(arr, l, m);

sort(arr , m+1, r);

merge(arr, l, m, r);

}

}

static void printArray(int arr[])

{

int n = arr.length;

for (int i=0; i<n; ++i)

System.***out***.print(arr[i] + " ");

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

}

public static void main(String args[])

{

int arr[] = {12, 11, 13, 5, 6, 7};

System.***out***.println("Given Array");

*printArray*(arr);

Merge\_Sort ob = new Merge\_Sort();

ob.sort(arr, 0, arr.length-1);

System.***out***.println("\nSorted array");

*printArray*(arr);

}

}