Writing a program in Java implementing the quick sort algorithm

package practice4;

public class Quick\_Sort {

int partition(int arr[], int low, int high)

{

int pivot = arr[high];

int i = (low-1);

for (int j=low; j<high; j++)

{

if (arr[j] <= pivot)

{

i++;

int temp = arr[i];

arr[i] = arr[j];

arr[j] = temp;

}

}

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();

}

public static void main(String args[])

{

int arr[] = {20,45,3,45,10, 7, 8, 9, 1, 5};

int n = arr.length;

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

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

System.***out***.println("sorted array");

*printArray*(arr);

}

}