1.

public class Sort {

public static void main(String[] args) {

int i;

int[] arr={90,23,101,45,65,23,67,89,34,23};

quickSort(arr, 0, 9);

System.out.println("\n The sorted array is: \n");

for(i=0;i<10;i++)

System.out.println(arr[i]);

}

public static int partition(int a[], int beg, int end)

{

int left, right, temp, loc, flag;

loc = left = beg;

right = end;

flag = 0;

while(flag != 1)

{

while((a[loc] <= a[right]) && (loc!=right))

right--;

if(loc==right)

flag =1;

elseif(a[loc]>a[right])

{

temp = a[loc];

a[loc] = a[right];

a[right] = temp;

loc = right;

}

if(flag!=1)

{

while((a[loc] >= a[left]) && (loc!=left))

left++;

if(loc==left)

flag =1;

elseif(a[loc] <a[left])

{

temp = a[loc];

a[loc] = a[left];

a[left] = temp;

loc = left;

}

}

}

returnloc;

}

static void Sort(int a[], int beg, int end)

{

int loc;

if(beg<end)

{

loc = partition(a, beg, end);

Sort(a, beg, loc-1);

Sort(a, loc+1, end);

}

}

}

2.

import java.util.Scanner;

class Revese

{

public static void main (String [] args)

{

String str, revese ;

Scanner scan = new Scanner (System.in);

Str = scan.nextLine();

Char[] = str.tocharArray();

int j = ch.length;

for(int i=j;i>0;i--)

{

rev=ch[i-1];

}

int ln = rev.length();

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

{

Character c = rev.charAt(i);

if(Character.isLowerCase(c))

rev.replace(i, i+1, Character.toUpperCase(c) + “ “);

else

rev.replace(i, i+1, Character.toLowerCase(c) + “ “);

}

System.out.print(revese);

}

}

3.

public class GFG {

public static long lcm\_of\_array\_elements(int[] element\_array)

{

long lcm\_of\_array\_elements = 1;

int divisor = 2;

while (true) {

int counter = 0;

boolean divisible = false;

for (int i = 0; i < element\_array.length; i++) {

if (element\_array[i] == 0) {

return 0;

}

else if (element\_array[i] < 0) {

element\_array[i] = element\_array[i] \* (-1);

}

if (element\_array[i] == 1) {

counter++;

}

if (element\_array[i] % divisor == 0) {

divisible = true;

element\_array[i] = element\_array[i] / divisor;

}

}

if (divisible) {

lcm\_of\_array\_elements = lcm\_of\_array\_elements \* divisor;

}

else {

divisor++;

}

if (counter == element\_array.length) {

return lcm\_of\_array\_elements;

}

}

}

public static void main(String[] args)

{

int[] element\_array = { 2, 7, 3, 9, 4 };

System.out.println(lcm\_of\_array\_elements(element\_array));

}

}

Note1:

Compile the program on the given link create a jpg/png screenshotand uploaded on githubb id .

Step-2 aslo copy the code in word file and upload the word file in github id.