```
import java.util.Arrays;
import java.util.Collections;
import java.util.Scanner;
public class ArrangeArray
{
  static void twoWaySort(Integer arr[], int n)
  {
    int 1 = 0, r = n - 1;
    int k = 0;
    while (1 < r)
    {
      while (arr[1] % 2 != 0)
      {
        1++;
        k++;
      while (arr[r] \% 2 == 0 \&\& 1 < r)
        r--;
      if (1 < r)
        int temp = arr[1];
        arr[l] = arr[r];
        arr[r] = temp;
      }
    Arrays.sort(arr, 0, k, Collections.reverseOrder()
    Arrays.sort(arr, k, n);
public static void main(String[] args)
{
  Scanner s = new Scanner(System.in);
  System.out.println("Enter the length of the array:"
  Integer length = s.nextInt();
  Integer [] arr = new Integer[length];
  System.out.println("Enter the elements of the array
  for(int i=0; i<length; i++ )</pre>
  {
   arr[i] = s.nextInt();
  System.out.println("Ascending Order: ");
    twoWaySort(arr, arr.length);
    System.out.println(Arrays.toString(arr));
```

Terminal

Enter the length of the array:

8
Enter the elements of the array:
1 3 4 62 32 15 66 87
Ascending Order:
[87, 15, 3, 1, 4, 32, 62, 66]

Process finished. R.Hemanthkumar SAP Id-51834684

```
import java.util.Scanner;
public class Merge
{
static Scanner s = new Scanner(System.in);
public static void main(String[] args)
{
Scanner s = new Scanner(System.in);
System.out.println("Enter the size of the first array
int [] arr1 = insert();
System.out.println("Enter the size of the second array
int [] arr2 = insert();
int [] arr3 = new int [arr1.length+arr2.length];
for(int i=0;i<(arr1.length+arr2.length);i++)</pre>
{
 if(i<arr1.length)</pre>
  {
   arr3[i]=arr1[i];
  {
   arr3[i]=arr2[i-arr1.length];
  }
bubblesort(arr3);
for(int i=0;i<arr3.length;i++)</pre>
{
 System.out.print(arr3[i]+" ");
public static int[] insert()
 int [] arr = new int[s.nextInt()];
 System.out.println("Enter the values
 for(int i=0;i<arr.length;i++)</pre>
  arr[i] = s.nextInt();
 return arr;
public static int[] bubblesort(int arr [])
 System.out.println("Output: ");
 for(int i=0;i<arr.length-1;i++)</pre>
  for(int j=0;j<arr.length-i-1;j++)
   if(arr[j]>arr[j+1])
   {
     int temp = arr[j];
     arr[j]
             = arr[j+1];
     arr[j+1] = temp;
   }
 }
 }
 return arr;
```

```
× Terminal
```

```
Enter the size of the first array:
Enter the values :
1 56 89 3 25
Enter the size of the second array:
Enter the values :
2 78 36 95 12
Output:
1 2 3 12 25 36 56 78 89 95
Process finished.
R. Hemanthkumar
SAP I'd-51834684
```

```
abstract class Student
  abstract void reading();
  abstract void listening();
  abstract void writing();
  abstract void walking();
  abstract void drawing();
}
 class HemanthKumar_R extends Student
 {
  void reading()
  {
    System.out.println("Student is reading...");
  void listening()
  {
    System.out.println("Student is listening...");
  void writing()
  {
    System.out.println("Student is writing...");
  }
  void walking()
  {
    System.out.println("Student is walking...");
  }
  void drawing()
  {
    System.out.println("Student is drawing...");
  }
 }
 class HemanthKumar
 {
  public static void main(String args[])
  {
    System.out.println("Name :");
    Student s=new HemanthKumar_R();
    s.reading();
    s.listening();
    s.writing();
    s.walking();
    s.drawing();
  }
```

## × Terminal

```
Name:
Student is reading...
Student is listening...
Student is writing...
Student is walking...
Student is drawing...
```

Process finished. R.Hemanthkumar. SAP ID-51834684

```
import java.lang.Math;
   public class Pattern
   {
     public static void main(String[] args)
     {
         char ch=' ';
         System.out.println("Output: ");
         for(int i=4;i>=1;i--)
              int k=(int)Math.pow(2,i-1);
              if(i==4)
                ch='*';
              else if(i==3)
                ch='&';
              else if(i==2)
                ch='%'
              for(int j=i;j<=4;j++)
              {
                  System.out.print(" ");
              for(int j=1; j <= k+2; j++)
              {
                  if(j==1 \mid | j==k+2 \&\& i!=1)
                  {
                       System.out.print("#");
                  else if(i!=1)
                  {
                       System.out.print(ch);
                  }
              System.out.println();
         }
     }
36 }
```

```
Terminal
```

```
*#
```

```
#******#
#&&&#
#%%#
#
```

Output:

Process finished. R.Hemanthkumar SAP I'd-51834684

```
import java.util.*;
   public class WordCount
     static int wordcount(String string)
       int count=0;
       char ch[]= new char[string.length()];
       for(int i=0;i<string.length();i++)</pre>
        {
         ch[i]= string.charAt(i);
         if( ((i>0)&&(ch[i]!=' ')&&(ch[i-1]==' '))
                   || ((ch[0]!=' ')&&(i==0)) )
                  count++;
          return count;
   public static void main(String[] args)
19 {
  Scanner sc = new Scanner (System.in);
  System.out.println("enter the string");
  String string =sc.nextLine();
   System.out.print("Output: "+wordcount(string)
                                            " words.");
26 }
```

## Terminal

Enter the string

hello how are u doing hope all well Output: 8 words. Process finished. R.Hemanthkumar SAP I'd -51834684