

Question 1:

```
import java.util.Scanner;

public class Ascending_Order
{
    public static void main(String[] args)
    {
        int n, temp;

        Scanner s = new Scanner(System.in);

        System.out.println("Program by Manasa \njava1\nSap:51834754");

        System.out.print("Enter no. of elements you want in array:");

        n = s.nextInt();

        int a[] = new int[n];

        System.out.println("Enter all the elements:");

        for (int i = 0; i < n; i++)
        {
            a[i] = s.nextInt();
        }

        for (int i = 0; i < n; i++)
        {
            for (int j = i + 1; j < n; j++)
            {
                if (a[i] > a[j])
                {
                    temp = a[i];
                    a[i] = a[j];
                }
            }
        }
    }
}
```

```
        a[j] = temp;
    }
}
}
System.out.print("Ascending Order:");
for (int i = 0; i < n - 1; i++)
{
    System.out.print(a[i] + ",");
}
System.out.print(a[n - 1]);
}
}
```

```

1 import java.util.Scanner;
2 public class Ascending_Order
3 {
4     public static void main(String[] args)
5     {
6         int n, temp;
7         Scanner s = new Scanner(System.in);
8         System.out.println("Program by Manasa \njava");
9         System.out.print("Enter no. of elements you");
10        n = s.nextInt();
11        int a[] = new int[n];
12        System.out.println("Enter all the elements:");
13        for (int i = 0; i < n; i++)
14        {
15            a[i] = s.nextInt();
16        }
17        for (int i = 0; i < n; i++)
18        {
19            for (int j = i + 1; j < n; j++)
20            {
21                if (a[i] > a[j])

```

Terminal

```

Program by Manasa
java1
Sap:51834754
Enter no. of elements you want in array:6
Enter all the elements:
5
6
2
0
2
1
Ascending Order:0,1,2,2,5,6
Process finished.

```

Question 2:

```
import java.util.Arrays;
```

```
public class Main
```

```
{
```

```
private static int[] mergeArray(int[] array1, int[] array2)
{
    System.out.println("Author:Manasa\nSAP ID:51834754");
    int[] mergedArray = new int[array1.length + array2.length];

    int a=0, b=0, c=0;

    while (a < array1.length)
    {
        mergedArray[c] = array1[a];
        a++;
        c++;
    }

    while (b < array2.length)
    {
        mergedArray[c] = array2[b];
        b++;
        c++;
    }

    Arrays.sort(mergedArray);

    return mergedArray;
}
```

```
public static void main(String[] args)
{
    int[] array1 = new int[] {12, -7, 18, 9, 37, -18, 21};

    int[] array2 = new int[] {2, 8, 71, -9, 18};

    int[] mergedArray = mergeArray(array1, array2);

    System.out.println("Array 1 : "+Arrays.toString(array1));

    System.out.println("Array 2 : "+Arrays.toString(array2));

    System.out.println("Merged Array : "+Arrays.toString(mergedArray));
}
}
```

```
1 import java.util.Arrays;
2
3 public class Main
4 {
5     private static int[] mergeArray(int[] array1, int[] array2)
6     {
7         System.out.println("Author:Manasa\nSAP ID:51834754");
8         int[] mergedArray = new int[array1.length + array2.length];
9
10        int a=0, b=0, c=0;
11
12        while (a < array1.length)
13        {
14            mergedArray[c] = array1[a];
15            a++;
16            c++;
17        }
18
19        while (b < array2.length)
20        {
21            mergedArray[c] = array2[b];
22            b++;
23            c++;
24        }
25
26        Arrays.sort(mergedArray);
27
28        return mergedArray;
29    }
30
31    public static void main(String[] args)
32    {
33        int[] array1 = new int[] {12, -7, 18, 9, 37, -18, 21};
34
35        int[] array2 = new int[] {2, 8, 71, -9, 18};
36    }
37 }
```

× Terminal

```
Author:Manasa
SAP ID:51834754
Array 1 : [12, -7, 18, 9, 37, -18, 21]
Array 2 : [2, 8, 71, -9, 18]
Merged Array : [-18, -9, -7, 2, 8, 9, 12, 18, 21, 71]
Process finished.
```

Question 5:

```
import java.util.Scanner;
```

```
public class Exercise5 {
```

```
    public static void main(String[] args)
```

```

{
    Scanner in = new Scanner(System.in);
    System.out.println("Program by Manasa\nJava1\nSap:51834754");

    System.out.print("Input the string: ");
    String str = in.nextLine();

    System.out.print("Number of words in the string: " + count_Words(str)+"\n");
}

```

```

public static int count_Words(String str)
{
    int count = 0;
    if (!(" ".equals(str.substring(0, 1))) || !(" ".equals(str.substring(str.length() - 1))))
    {
        for (int i = 0; i < str.length(); i++)
        {
            if (str.charAt(i) == ' ')
            {
                count++;
            }
        }
        count = count + 1;
    }

    return count; // returns 0 if string starts or ends with space " ".
}

```

```
}  
  
}
```

```
1 import java.util.Scanner;  
2 public class Exercise5 {  
3  
4     public static void main(String[] args)  
5     {  
6         Scanner in = new Scanner(System.in);  
7         System.out.println("Program by Manasa\nJava1  
8  
9         System.out.print("Input the string: ");  
10        String str = in.nextLine();  
11  
12        System.out.print("Number of words in the string: ");  
13    }  
14  
15    public static int count_Words(String str)  
16    {  
17        int count = 0;  
18        if (!(" ".equals(str.substring(0, 1))) || !  
19        {  
20            for (int i = 0; i < str.length(); i++)  
21            {  
22                if (str.charAt(i) == ' ')  
23                {  
24                    count++;  
25                }  
26            }  
27            count = count + 1;  
28        }  
29        return count; // returns 0 if string starts  
30    }  
31 }
```

× Terminal



```
Program by Manasa  
Java1  
Sap:51834754  
Input the string: hi  
Number of words in the string: 1  
  
Process finished.
```