

## Advanced Java & J2EE

### 2. Find the second maximum and second minimum in a set of numbers using auto boxing and unboxing.

#### Code:

```
package com.mycompany.secmamaxmin;

import java.util.Scanner;

public class SecMaxMin {

    public static void main(String[] args) {
        int n, i, j, small, large, temp;
        Scanner sc = new Scanner(System.in);

        System.out.println("Enter the size of Array");
        n = sc.nextInt();

        if (n < 2) {
            System.out.println("Array must contain at least two elements");
        } else {
            int a[] = new int[n];
            System.out.println("Enter the array elements");
            for (i = 0; i < n; i++) {
                a[i] = sc.nextInt();
            }
            for (i = 0; i < n - 1; i++) {
                for (j = 0; j < n - i - 1; j++) {
                    if (a[j] > a[j + 1]) {
```

```
        temp = a[j];
        a[j] = a[j + 1];
        a[j + 1] = temp;
    }
}
}
small = a[1];
large = a[n - 2];
System.out.println("The second smallest number is: " + small);
System.out.println("The second largest number is: " + large);
}
}
}
```

**Output:**

Enter the size of Array

4

Enter the array elements

98

08

67

76

The second smallest number is: 67

The second largest number is: 76

**4. Write a java program to find words with even number of characters in a string, then swap the pair of characters in those words and also toggle the characters in a given string EX: Good Morning everyone Output: oGdo vereoyen gOOD mORNING EVERYONE**

**Code:**

```
package com.mycompany.character;

import java.util.Scanner;

import java.lang.*;

public class Character {

    public static void main(String[] args) {

        String str;

        String S[]=new String[10];

        int i,j,k,len;

        Scanner sc= new Scanner(System.in);

        System.out.println("enter the string");

        str=sc.nextLine();

        S=str.split(" ");

        for(i=0;i<S.length;i++)

        {

            len=S[i].length();

            char m[]=new char[len];

            if(len%2==0)

            {

                m=S[i].toCharArray();

                for(j=0;j<len;j=j+2)
```

```

        {
            char ch=m[j];
            m[j]=m[j+1];
            m[j+1]=ch;
        }
        S[i]=" ";
        for(k=0;k<len;k++)
            S[i]=S[i]+m[k];
        System.out.println(S[i]);
    }
}
len=str.length();
char cr[]=new char[len];
cr=str.toCharArray();
for(i=0;i<len;i++)
{
    if(Character.isLowerCase(cr[i]))
    {
        cr[i]=Character.toUpperCase(cr[i]);
        continue;
    }
    if(Character.isUpperCase(cr[i]))
        cr[i]=Character.toLowerCase(cr[i]);
}
str=" ";

```

```
for(k=0;k<len;k++)  
    str=str+cr[k];  
System.out.println(str);  
    }  
}
```

**Output:**

enter the string

Good Morning everyone

oGdo

vereoyen

gOOD mORNING EVERYONE

