IIP

Test Unit 4 - Possible solution Year 2013-2014

Name:

1. What is the output of the following code when x of datatype int is equal to 0? And when it is equal to 1?

```
if (x>0)
    System.out.print("x is positive");
else System.out.print("x is ");
    System.out.print(x);

For x==0: x is 0 For x==1: x is positive1
```

2. Write a Java program class in whose main method three integer values are read and show the minimum and maximum number of the set of three numbers. Employ decision structures, no Math methods.

```
import java.util.*;
public class MinMax3 {
  public static void main(String [] args) {
    int a, b, c;
    Scanner kbd = new Scanner(System.in).useLocale(Locale.US);
    System.out.print("Write first number: ");
    a=kbd.nextInt();
    System.out.print("Write second number: ");
    b=kbd.nextInt();
    System.out.print("Write third number: ");
    c=kbd.nextInt();
    if ((a \le b) \&\& (a \le c)) {
      System.out.println("Minimum: "+a);
      if (b<=c) System.out.println("Maximum: "+c);</pre>
      else System.out.println("Maximum: "+b);
    }
    else if ((b \le a) \&\& (b \le c)) {
      System.out.println("Minimum: "+b);
      if (a<=c) System.out.println("Maximum: "+c);</pre>
      else System.out.println("Maximum: "+a);
    }
    else {
      System.out.println("Minimum: "+c);
      if (a<=b) System.out.println("Maximum: "+b);</pre>
      else System.out.println("Maximum "+a);
 }
}
```

3. Write a Java program class that reads an integer number max and, after that, as many integer numbers as necessary until their sum is greater than max.

```
import java.util.*;

public class ToMax {
   public static void main(String [] args) {
     int n, m, s;
     Scanner kbd = new Scanner(System.in).useLocale(Locale.US);

     System.out.print("Write max number: ");
     m=kbd.nextInt();

     s=0;
     while (s<=m) {
          System.out.print("Write number: ");
          n=kbd.nextInt();
          s+=n;
     }
   }
}</pre>
```

4. Write a Java program class that reads a sentence and writes the sentence without letters 'a'. E.g., "A big man came from the sea" will be written as "A big mn cme from the se". Do not use replace method, but a loop for checking each character of the sentence.

```
import java.util.*;

public class Noa {
   public static void main(String [] args) {
      String s;
      int i;
      Scanner kbd = new Scanner(System.in).useLocale(Locale.US);

      System.out.print("Write sentence: ");
      s=kbd.nextLine();

   i=0;
   while (i<s.length()) {
      if (s.charAt(i)!='a') System.out.print(s.charAt(i));
      i++;
    }

   }
}</pre>
```