IIP

Test Units 2-3 - Possible solution

Year 2012-2013

Name:

1. Write a Java assignment that transforms into euros (`double` datatype) an amount introduced in pesetas (`int` datatype, supposed to be a positive value), where 1 euros is equal to 166.386 pesetas. The identifiers are `euros` and `pesetas`.

```
euros = pesetas / 166.386;
```

2. Write a Java program class that asks for your height (in meters) and weight (in kilos) and writes `true` if you are in a healthy condition (i.e., your weight divided by the square of your height is between 20 and 25, both included).

```
import java.util.*;

public class Healthy {
  public static void main(String [] args) {
    double h, w, aux;
    Scanner kbd = new Scanner(System.in).useLocale(Locale.US);

    System.out.println("Write your height in meters: ");
    h=kbd.nextDouble();
    System.out.println("Write your weight in kg: ");
    w=kbd.nextDouble();
    aux=w/(h*h);
    System.out.println(aux>=20.0 && aux<=25.0);
  }
}
```

3. Write a Java program that asks for two words and writes `true` when they start with the same letter (ignoring case).

```
import java.util.*;

public class Words {
  public static void main(String [] args) {
    String w1, w2;
    Scanner kbd = new Scanner(System.in).useLocale(Locale.US);

    System.out.print("Write first word: ");
    w1=kbd.next();
    System.out.print("Write second word: ");
    w2=kbd.next();
    w1=w1.toUpperCase();
    w2=w2.toUpperCase();
    System.out.println(w1.charAt(0)==w2.charAt(0));
  }
}
```

4. Write a Java program that asks for three real numbers and writes the maximum number. Employ methods of the `Math` class.

```
import java.util.*;

public class Max3 {
  public static void main(String [] args) {
    double x1, x2, x3, aux;
    Scanner kbd = new Scanner(System.in).useLocale(Locale.US);

    System.out.print("Write first number: ");
    x1=kbd.nextDouble();
    System.out.print("Write second number: ");
    x2=kbd.nextDouble();
    System.out.print("Write third number: ");
    x3=kbd.nextDouble();
    aux=Math.max(x1,x2);
    aux=Math.max(aux,x3);
    System.out.println("Maximum is: "+aux);
  }
}
```