IIP

Test Unit 2 - Possible solution Year 2015-2016

Name:

1. Write a Java assignment that converts an amount in kilometers into miles (1 mile is equal to 1609 meters). You can suppose that the value of kilometers is stored in a positive double variable km, and that the result will be stored in a positive double variable miles.

```
miles = km/1.609;
```

2. Write a Java program class that asks for your an integer number and writes **true** if it an even number (multiple of 2) or a negative number, and **false** otherwise.

```
import java.util.*;

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

     System.out.print("Write an integer number: ");
     n=kbd.nextInt();
     System.out.println(n<0 || n%2==0);
   }
}</pre>
```

3. Write a Java program that asks for a line and writes on the screen the first word of the line (those characters before the first blank space). You can suppose that the string has at least two words.

```
import java.util.*;

public class FirstWord {
   public static void main(String [] args) {
      String s;
      int 1;
      Scanner kbd = new Scanner(System.in).useLocale(Locale.US);

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

      l=s.indexOf(" ");
      System.out.println(s.substring(0,1));
   }
}
```

4. Write a Java program that asks for the radius of a circle (positive real number) and prints out the area of the circle $(2\pi r)$. In case that radius is negative, its absolute value must be used.

```
import java.util.*;

public class CircleArea {
  public static void main(String [] args) {
    double r, a;
    Scanner kbd = new Scanner(System.in).useLocale(Locale.US);

    System.out.print("Write the radius: ");
```

```
r=kbd.nextDouble();

r=Math.abs(r);
a=Math.PI*r*r;
System.out.println("Area: "+a);
}
```