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Course: cs139a
Assignment: pt1
Version: 2
Date: Thu Sep 16 04:14:48 PM 2004
Files: RodConverter.java
PDF-spec: 90/99

Honor Pledge: I have NOT received unauthorized assistance

Compiling ...
j139c RodConverter.java

/aux/bin/progtst -C -v -f test-report pt1
*** PROGRAM TEST ***
Assignment: pt1
Test Dir: /fs/home-f/aboutams/cs139.d/assign.d/pt1.d
Test Cnt: 5

Test 01: (pt1 <tst-01 )
  Exec prog...; output: right; SUCCESS.
Test 02: (pt1 <tst-02 )
  Exec prog...; output: right; SUCCESS.
Test 03: (pt1 <tst-03 )
  Exec prog...; output: right; SUCCESS.
Test 04: (pt1 <tst-04 )
  Exec prog...; output: right; SUCCESS.
Test 05: (pt1 <tst-05 )
  Exec prog...; output: right; SUCCESS.

*** TEST RESULT FOR 'pt1': SUCCESS ***
<--- Test 01: model err-output is empty --->
<--- Test 01: your err-output is empty --->
<--- Test 02: model err-output is empty --->
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<--- Test 03: model err-output is empty --->
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<--- Test 04: model err-output is empty --->
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<--- Test 05: model err-output is empty --->
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import java.text.DecimalFormat;
import csl.Keyboard;

public class RodConverter {
    public static void main(String[] args) {
        // Variables Declarations
        double rods, // number of rods to convert
                yards, // equivalent yards
                miles; // equivalent miles
        final double YARDS_PER_ROD = 5.5, // Conversion constants
                YARDS_PER_MILE = 1760.0;

        DecimalFormat twoDecimals = new DecimalFormat("0.00");

        // Print the header
        System.out.println("\n\t\t\tRod Converter\n");

        // Get the number of rods to convert then echo the values
        System.out.print("Enter the number of rods to convert: ");
        rods = Keyboard.readInt();
        System.out.println("Number of rods: \t" + twoDecimals.format(rods));

        // Convert to yards and miles
        yards = rods * YARDS_PER_ROD;
        miles = yards / YARDS_PER_MILE;

        // Format and display the results on the screen
        System.out.println("\n\t\t\tNumber of yards: \t" + twoDecimals.format(yards));
        System.out.println("Number of miles: \t" + twoDecimals.format(miles));

        // Display the exit message
        System.out.println("\n\t\tExiting program Rod Converter\n");
    }
}