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import java.util.Scanner;

public class homeWork2 {

public static void mean() {

Scanner scan = new Scanner(System.in);

System.out.println("You will calculate the mean of 2 numbers");

System.out.println("Please enter your first number ");

double f1 = scan.nextDouble();

System.out.println("Please enter another number");

double f2 = scan.nextDouble();

double m = (f1+f2) / 2.0;

System.out.println("Your Arithmetic mean is " + " " + m);

}

public static void Hmean() {

Scanner scan = new Scanner(System.in);

System.out.println("You will calculate the harmonic mean of 3 numbers");

System.out.println("Please enter your first number ");

double f3 = scan.nextDouble();

System.out.println("Please enter your second number");

double f4 = scan.nextDouble();

System.out.println("Please enter your last number");

double f5 = scan.nextDouble();

double m1 = 3/ (1/f3 + 1/f4 + 1/f5);

System.out.println("Your Arithmetic mean is " + " " + m1);

}

public static void Hrent() {

Scanner scan = new Scanner(System.in);

System.out.println("Enter the size of the house you want to rent int (sq ft)");

System.out.println("Press Enter to see the rent for that size house");

double area = scan.nextDouble();

if(area >= 1300 ) {

System.out.println("Your rent is 1700");

} else if(area >= 1200 && area < 1300 ) {

System.out.println("Your rent is 1500");

} else if(area >= 1000 && area < 1200 ) {

System.out.println("Your rent is 1350");

} else if(area >= 800 && area < 1000 ) {

System.out.println("Your rent is 1050");

} else if(area < 800 ) {

System.out.println("Your rent is 900");

} else {

System.out.println("Your Area is low and cannot calaculate the rent");

}

}

public static void Pmonth() {

Scanner scan = new Scanner(System.in);

System.out.println("Enter a number 1-12 ");

System.out.println("Press Enter to see the month you picked");

double month = scan.nextInt();

if(month == 1 ) {

System.out.println("The month you picked is January");

} else if(month == 2) {

System.out.println("The month you picked is February");

} else if(month == 3 ) {

System.out.println("The month you picked is March");

} else if(month == 4 ) {

System.out.println("The month you picked is April");

} else if(month == 5 ) {

System.out.println("The month you picked is May");

} else if(month == 6 ) {

System.out.println("The month you picked is June");

} else if(month == 7 ) {

System.out.println("The month you picked is July");

} else if(month == 8 ) {

System.out.println("The month you picked is August");

} else if(month == 9 ) {

System.out.println("The month you picked is September");

} else if(month == 10 ) {

System.out.println("The month you picked is October");

} else if(month == 11 ) {

System.out.println("The month you picked is November");

} else if(month == 12 ) {

System.out.println("The month you picked is December");

} else {

System.out.println("You only have 12 months in a year!");

}

}

public static void evenOrOdd() {

Scanner scan = new Scanner(System.in);

int num;

System.out.println("Enter a number to see if it is Even or Odd");

num = scan.nextInt();

switch(num % 2) {

case 0: System.out.println( num + " " + "is a Even number");

break;

case 1: System.out.println( num + " " + "is a Odd number");

}

}

public static void main(String[] args) {

homeWork2 hw = new homeWork2();

System.out.println("Problem 1 Arithmetic Mean");

hw.mean(); //If you treat the methods as instance methods, you shouldn’t declare them as static.

System.out.println("Problem 2 Harmonic Mean");

hw.Hmean();

System.out.println("Problem 3 Rent of a House");

hw.Hrent();

System.out.println("Problem 4 picking a month");

hw.Pmonth();

System.out.println("Optional Problem Even or Odd");

hw.evenOrOdd();

}

}