For: Melissa Bakke

Assignment: 13.4 Display Calendars

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| **Screenshot(s)** |
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| **Code** |
| */\*\**  *\* Author: Melissa Bakke*  *\* Date: 01/19/2017*  *\* Class: CIS171-101*  *\* Assignment: Exercise 13.4*  *\*/*  *import java.util.\*;*  *import java.util.Scanner;*  *public class DisplayCalendars {*  *// Main method*  *public static void main(String[] args) {*  *int year = getUserYear();*  *int month = getUserMonth();*    *// New instance of Gregorian Calendar*  *Calendar gregCal = new GregorianCalendar(year, month-1, 1);*    *// Print calendar for the month of the year*  *printMonth(gregCal);*  *}// end Main method*    *// Print the calendar for a month in a year*  *public static void printMonth(Calendar cal) {*  *// Print the headings of the calendar*  *printMonthTitle(cal);*    *// Print the body of the calendar*  *printMonthBody(cal);*  *}// end printMonth*    *// Print the month title*  *public static void printMonthTitle(Calendar cal) {*  *System.out.println(" " + cal.getDisplayName(Calendar.MONTH, Calendar.LONG, Locale.getDefault()) + " " + cal.get(Calendar.YEAR));*  *System.out.println("---------------------------");*  *System.out.println(" Sun Mon Tue Wed Thu Fri Sat");*  *} // end printMonthTitle*    *// Print month body*  *public static void printMonthBody(Calendar cal) {*  *// Get start day of the week for the first date in the month*  *int startDay = cal.get(Calendar.DAY\_OF\_WEEK);*    *// Get number of days in the month*  *int numberOfDaysInMonth = cal.getMaximum(Calendar.DAY\_OF\_MONTH);*    *// Pad space before first day*  *for (int i = 1; i < startDay; i++) {*  *System.out.print(" ");*  *}*    *for (int i = 1; i <= numberOfDaysInMonth; i++) {*  *System.out.printf("%4d", i);*  *if ((i + (startDay-1)) % 7 == 0) {*  *System.out.println();*  *}*  *}*  *System.out.println();*  *}*  */\*\**  *\* Method to get user input for year after validation*  *\* @return*  *\*/*  *private static int getUserYear() {*  *int userYear = 0;*  *Scanner input;*  *while (true) {*  *try {*  *input = new Scanner(System.in);*  *System.out.print("Enter full year (e.g., 2001): ");*  *userYear = input.nextInt();*  *return userYear;*  *}*  *catch (Exception e) {*  *System.out.println("Non-numeric input.");*  *}*  *}*  *}*  */\*\**  *\* Method to get user input for month after validation*  *\* @return*  *\*/*  *private static int getUserMonth() {*  *int userMonth = 0;*  *Scanner input;*  *while (true) {*  *try {*  *input = new Scanner(System.in);*  *System.out.print("Enter month in number between 1 and 12: ");*  *userMonth = input.nextInt();*  *return userMonth;*  *}*  *catch (Exception e) {*  *System.out.println("Non-numeric input.");*  *}*  *}*  *}*  *} // end DisplayCalendars* |
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