

FollowingDate.java

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package followingDate;

import java.util.Scanner;

public class FollowingDate {

    public static void main (String [] args){

        Scanner input = new Scanner (System.in);
        int nextDay, nextMonth, nextYear;

        System.out.println("Please enter the date as ---> day month year");
        String date = input.nextLine();

        int firstWhiteSpace = date.indexOf(' ');
        int secondWhiteSpace = date.indexOf(' ', firstWhiteSpace+1);

        int day = Integer.parseInt(date.substring(0, firstWhiteSpace));
        nextDay = day;
        int month = Integer.parseInt(date.substring(firstWhiteSpace+1, secondWhiteSpace));
        nextMonth = month;
        int year = Integer.parseInt(date.substring(secondWhiteSpace+1));
        nextYear = year;

        if(day > 31 || day <= 0) System.out.println("Invalid day :");
        if(month > 12 || month <= 0) System.out.println("Invalid month :");
        if(year <= 0) System.out.println("Invalid year :");

        switch(month){
            case 1: case 3: case 5: case 7: case 8: case 10: // the case where the month has 31
                days
                    if(day < 31)
                        nextDay = day+1;
                    else {
                        nextDay = 1;
                        nextMonth = month+1;
                    }
                break;

            case 2:
                if((year % 4 == 0 && year % 100 != 0) || ( year % 400 == 0)){ //leap year where
                    February has 29 days
                        if(day < 29)
                            nextDay = day+1;
                        else{
                            nextDay = 1;
                            nextMonth = 3;
                        }
                    }
                else {
                    if(day < 28)
                        nextDay = day+1;
                    else {
                        nextDay = 1;
                        nextMonth = 3;
                    }
                }
                break;

            case 4: case 6: case 9: case 11: // the case where the month has 30 days
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        if(day < 30)
            nextDay = day+1;
        else {
            nextDay = 1;
            nextMonth = month+1;
        }
        break;

    case 12: //the case where the month has 31 days and it's December
        if(day < 31)
            nextDay = day+1;
        else{
            nextDay = 1;
            nextMonth = 1;
            nextYear = year+1;
        }
        break;

    default:
        System.out.print("Sorry something went wrong !");
    }

    System.out.print("The date you entered is: " + day + ":" + month + ":" + year + "
has the following date: " + nextDay + ":" + nextMonth + ":" + nextYear);

    input.close();

} //end main
} //end class
```