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**IF433-I OOP EXERCISE WEEK 6**

public class Date {

    private int year;

    private int month;

    private int day;

    public Date(int year, int month, int day) {

        this.year = year;

        this.month = month;

        this.day = day;

    }

    public int getYear() {

        return year;

    }

    public int getMonth() {

        return month;

    }

    public int getDay() {

        return day;

    }

    public void setYear(int year) {

        this.year = year;

    }

    public void setMonth(int month) {

        this.month = month;

    }

    public void setDay(int day) {

        this.day = day;

    }

    public void addYears(int yearsToAdd) {

        this.year += yearsToAdd;

    }

    public void addMonths(int monthsToAdd) {

        this.month += monthsToAdd;

    }

    public void addDays(int daysToAdd) {

        this.day += daysToAdd;

    }

    public String toString() {

        return String.format("%02d/%02d/%04d", day, month, year);

    }

    public void setDate(int year, int month, int day) {

        this.year = year;

        this.month = month;

        this.day = day;

    }

    public void addDate(int daysToAdd, int monthsToAdd, int yearsToAdd) {

        this.year += yearsToAdd;

        this.month += monthsToAdd;

        this.day += daysToAdd;

    }

}

public class Time {

    private int hour;

    private int minute;

    private int second;

    public Time(int hour, int minute, int second) {

        this.hour = hour;

        this.minute = minute;

        this.second = second;

    }

    public int getHour() {

        return hour;

    }

    public int getMinute() {

        return minute;

    }

    public int getSecond() {

        return second;

    }

    public void setHour(int hour) {

        this.hour = hour;

    }

    public void setMinute(int minute) {

        this.minute = minute;

    }

    public void setSecond(int second) {

        this.second = second;

    }

    public void addHours(int hoursToAdd) {

        this.hour += hoursToAdd;

    }

    public void addMinute(int minutesToAdd) {

        this.minute += minutesToAdd;

    }

    public void addSeconds(int secondsToAdd) {

        this.second += secondsToAdd;

    }

    public String toString() {

        return String.format("%02d:%02d:%02d", hour, minute, second);

    }

    public void setTime(int hour, int minute, int second) {

        this.hour = hour;

        this.minute = minute;

        this.second = second;

    }

    public void addTime(int hoursToAdd, int minutesToAdd, int secondsToAdd) {

        this.hour += hoursToAdd;

        this.minute += minutesToAdd;

        this.second += secondsToAdd;

    }

}

public class DateTime {

    private Date date;

    private Time time;

    public DateTime(int year, int month, int day, int hour, int minute, int second) {

        this.date = new Date(year, month, day);

        this.time = new Time(hour, minute, second);

    }

    public DateTime(Date date, Time time) {

        this.date = date;

        this.time = time;

    }

    public void setDate(int year, int month, int day) {

        this.date.setYear(year);

        this.date.setMonth(month);

        this.date.setDay(day);

    }

    public void setTime(int hour, int minute, int second) {

        this.time.setHour(hour);

        this.time.setMinute(minute);

        this.time.setSecond(second);

    }

    public String toString() {

        return String.format("%s %s", date.toString(), time.toString());

    }

}