

## Exercise: MyDate, version 5

MyDate
- day : int - month : int - year : int
+ MyDate(day : int, month : int, year : int) + MyDate(day : int, monthName : String, year : int) + MyDate() + getDay() : int + getMonth() : int + getYear() : int + getMonthName() : String + set(day : int, month : int, year : int) : void + isLeapYear() : boolean + stepForwardOneDay() : void + stepForward(days : int) : void + numberOfDaysInMonth() : int + yearsBetween(other : MyDate) : int + daysBetween(other : MyDate) : int + isBefore(other : MyDate) : boolean + copy() : MyDate + equals(obj : Object) : boolean + toString() : String + <u>convertToMonthNumber(monthName : String) : int</u>

Create a new module and name it `MyDate_v6` copying your latest version of class `MyDate`.

Modify class `MyDate`:

- Add a class method (static method) `convertToMonthNumber` using a switch converting the string parameter to the corresponding integer value, "January"=1, "February"=2, "March"=3, etc. Treat all other strings as "January".
- Create one more three-argument constructor, this time with the second parameter being the string version of the month.  
*Hint:* Call the static method to convert to the month number and call the other constructor (in one statement).

Create or modify the test application named `MyDateTest` such that you demonstrates class `MyDate`'s new capabilities.