Exercise SDJ1

## Exercise: MyDate, version 3

MyDate
- day : int - month : int - year : int
<pre>+ MyDate(day : int, month : int, year : int) + set(day : int, month : int, year : int) : void + getDay() : int + getMonth() : int + getYear() : boolean + getMonthName() : String + stepForwardOneDay() : void + numberOfDaysInMonth() : int + isBefore(other : MyDate) : boolean + yearsBetween(other : MyDate) : int + getAstroSign() : String + getAstroElement() : String + toString() : String</pre>

Create a new Module and name it MyDate\_v3 – and copy files from MyDate\_v2. Modify class MyDate:

a) Add a method getAstroSign that will return a String with the name of the astrological sign corresponding to the date.

The 12 astrological signs are:

- Aries March 21 April 19 (both days included)
- Taurus for April 20 May 20 (both days included)
- Gemini May 21 June 20 (both days included)
- Cancer June 21 July 22 (both days included)
- Leo July 23 August 22 (both days included)
- Virgo August 23 September 22 (both days included)
- Libra September 23 October 22 (both days included)
- Scorpio October 23 November 21 (both days included)
- Sagittarius November 22 December 21 (both days included)
- Capricorn December 22 January 19 (both days included)
- Aquarius January 20 February 18 (both days included)
- Pisces February 19 March 20 (both days included)
- b) Add a method getAstroElement that will return a String with the element of the astrological sign corresponding to the date.

The 4 astrological elements are:

- Fire for Aries, Leo, Sagittarius
- Earth for Taurus, Virgo, Capricorn
- Water for Cancer, Scorpio, Pisces
- Air for Gemini, Libra, Aquarius

Modify the test application named MyDateTest such that you demonstrates class MyDate's new capabilities.