# Creating a Date class

### Due: Demonstration due at the end of the class

We will assume that there are 12 months in a year and each month is 30days long.

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| **Date**  Class |
| **Fields**  - year : int  - month : int  - day : int |
| **Methods**  + «constructor» Date(year : int, month : int, day : int)  + ToString() : string  + AddDays(howMany : int) : void |

Description of field members:

1. **year**: this private member represents the year value of this object
2. **month**: this private member represents the month value of this object
3. **day**: this private member represents the day value of this object

Description of method members:

1. **Date**: this is the constructor of this class. It takes three integer arguments and assigns them to the appropriate fields. You will assume that all the arguments will be in the correct range.
2. **ToString**: this method overrides the same method in the base class. It does not take any argument but it returns a string representing this object
3. **AddDays**: this method takes a single integer argument representing the amount to increase the day field by and adds it to the appropriate field.

In your main method write the code to do the following:

1. Create a Date object. You decide on the arguments.
2. Display the above object reference on the console.
3. Call the AddDays() method of the object reference to verify that the method works correctly. (How would you display the modified object?).
4. What would you add to the class to make the display more sensible? i.e. the day and month value should be in range