

**22/SP-COP-2800-65294 Java Programming**

**Exercise 3.1**

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# Document Version Control

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# Document Purpose

The purpose of this document is to define the Number of days in a month class.

# Technical Specifications

## Purpose of Technical Implementation

The purpose of this implementation is to provide the days of the specified month and year.

## Technical Implementation Components

The class has three methods. getMonth() prompts the user to enter the month in a numerical format. getYear() prompts the user to enter the full calendar year. setYearAndDate() compares the values entered by the previous two methods and sets the amount of days and the month name to the global variables.

## Number of days in a month Implementation

The class begins by prompting the user to enter a month’s numerical value. Next, prompts for the year in YYYY format. Finally, the class will compare the values provided by the user. The if() method in the setYearAndDate() checks to see if the year provided is evenly divided by four. This is to check if the year provided is a leap year and changes the date accordingly. Furthermore, the class displays the message including the month, year, and how many days there were in said month.