

On the Day That You Were Born- Milestone

Abstract

This paper details the work that has been completed on my final project for Software Development 1. The program I have designed aims to take a personal look at information based on your day of birth. The coding that I have used including the use of classes, methods, if-statements, and switches has all been learned in class and are highlighted throughout the length of the code. In this paper, I have outlined the reason I decided to do this project, the steps taken to create the program, the uses for the program right now, and the work that I will continue to do to complete this project.

Introduction

The pseudo personalization that surrounds birthdays, zodiacs, and horoscopes can often have a very personalized feel to them. Even though it is just another day, finding out things about your “special day” can make you very happy. For project 2 I have sought out to capitalize on this feeling and design what will feel like a completely unique and personalized interaction completely based on the day that you were born. A user simply chooses to run the program, reads the prompts, enters their birthday and a passage of formulated yet unique information is created for the user. As you read through this report, you will see how I have decided to separate my methods, the interactions my classes have with each other, how the program runs currently, programs that work similarly to mine, and a brief overview of the research that has led to the current version of the project.

Detailed System Description

While I will continue to look for the best and most interesting ways to manipulate user data into an output, I have fully decided on five specific methods that create some pretty exciting feedback. These methods have been worked into classes, that I call from the main method of Driver_prj2. For the classes that this program calls on I have broken down the operations into two parts: calculated data, and compared data. The calculated data is the methods that require further math to create a result. While the compared data is the methods that compare values to create a result. These classes were named Birthday() and Zodiac() respectively and I hope to expand them as I choose the other methods.

Calculated Data

Inside of Birthday.java is where I have the three methods that use math to calculate an output.

- monthWritten: changes the int value taken in for the birthday month and writes the string of that month. Ex. month = 5 | monthWritten(month) = May
- dayOfTheWeek: Takes the year, day, and month a user was born and determines what day of the week a user was born. Ex. April 1,1998 | dayOfTheWeek (1998, 1, 4) = Wednesday
- whensBirthday: compares your birthday to the current date to create a Boolean value that shows if your birthday has passed or not. Ex. comparison = 4/1 < current date |
whensBirthday (comparison) = -1

Compared Data

Inside of Zodiac.java is where I have the two methods that compare the user's information to known values to create an output.

- western: Runs the user's birthday through an if statement to decide what the user's western zodiac is. Ex. month = 4, day = 1 | western (month, day) = Aries
- chinese: Runs the birth year through a switch to decide the Chinese zodiac that the user has. Ex. year = 1998 | chinese (year) = tiger

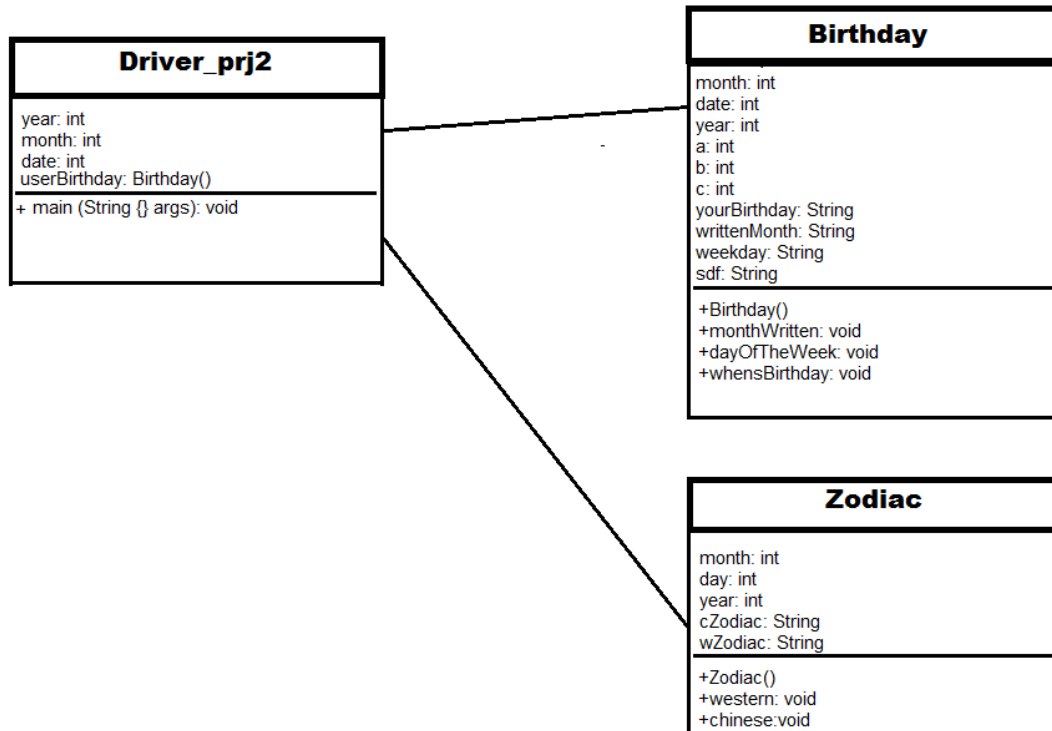


Figure 1.1 UML Diagram

In the main method of Driver_prj2 I hope to expand the print statements to display this information. While it may seem fairly basic at this early stage my hope is to continue growing the classes and interactive text to better connect with the user

Literature survey

While I did find multiple different systems that did the work of my program, I never found one that gave all of information. I also did not find a program that interacted with the user

in the way that my program will. The focus of this project is to bring that personalized aspect into all of the code and that is where I believe my work differs.

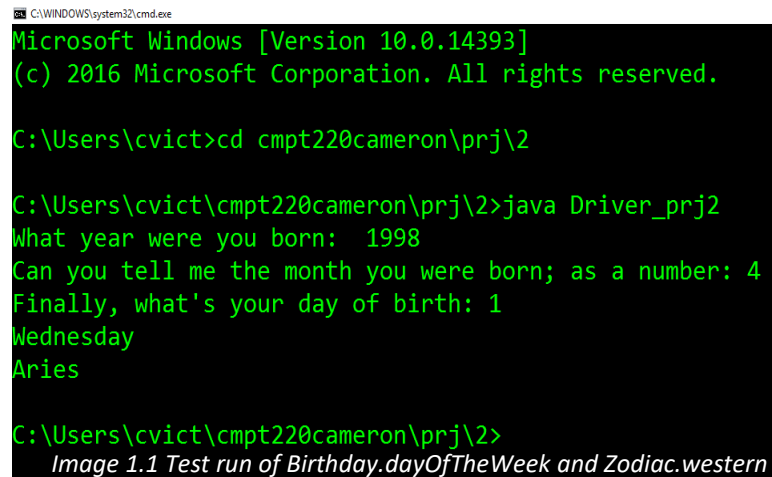
User Manual

The operation of this program is simple right now because I haven't added in the interactive text that will make up the main part of the user interaction. While a lot of what I want to say is typed out in a separate word file I would like to keep the code simple till I fully flesh out the

technical aspects of the code. In its current state, running the program and receiving feedback is as simple as inputting your year of birth, the month you were born as a number, and the day that you were born. This information prints the different statements that I am testing as my classes and methods continue to grow.

Conclusion

The code that is currently written can take in information and distribute it into classes. I can gather information from a user and return to them data that has been calculated or compared to tell the user something new. There is a substantial amount of work done on the project and I am happy with its progress thus far. I will continue to add in the readable text that makes the program interactive and hope to add in methods like a counter for the days till your next birthday and a counter for how old you are in years, months, and days.



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\cvict>cd cmpt220cameron\prj\2

C:\Users\cvict\cmpt220cameron\prj\2>java Driver_prj2
What year were you born: 1998
Can you tell me the month you were born; as a number: 4
Finally, what's your day of birth: 1
Wednesday
Aries

C:\Users\cvict\cmpt220cameron\prj\2>
```

Image 1.1 Test run of Birthday.dayOfTheWeek and Zodiac.western

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