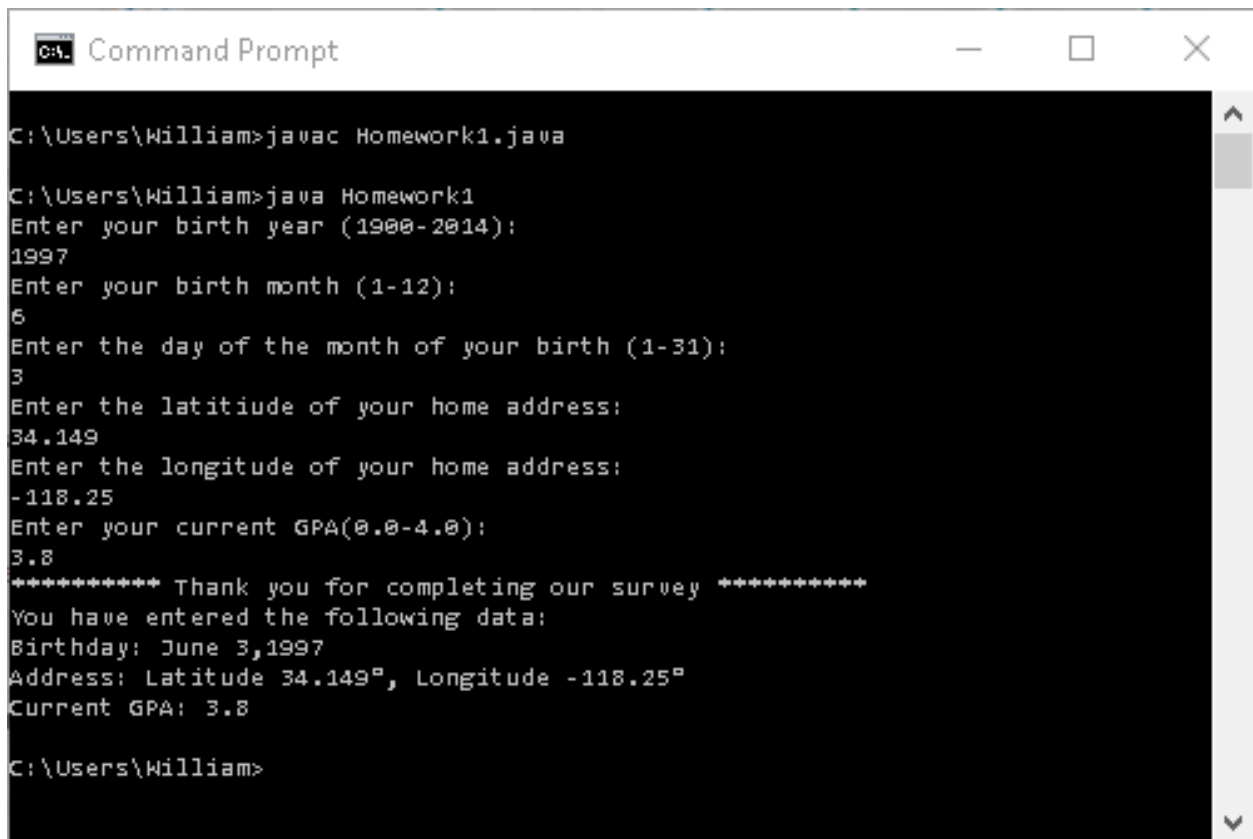William Crutchfield

CMIS 141

1/24/2016

Final Product


```
C:\Users\William>javac Homework1.java

C:\Users\William>java Homework1
Enter your birth year (1900-2014):
1997
Enter your birth month (1-12):
6
Enter the day of the month of your birth (1-31):
3
Enter the latitiude of your home address:
34.149
Enter the longitude of your home address:
-118.25
Enter your current GPA(0.0-4.0):
3.8
*********** Thank you for completing our survey ***********
You have entered the following data:
Birthday: June 3,1997
Address: Latitude 34.149°, Longitude -118.25°
Current GPA: 3.8

C:\Users\William>
```
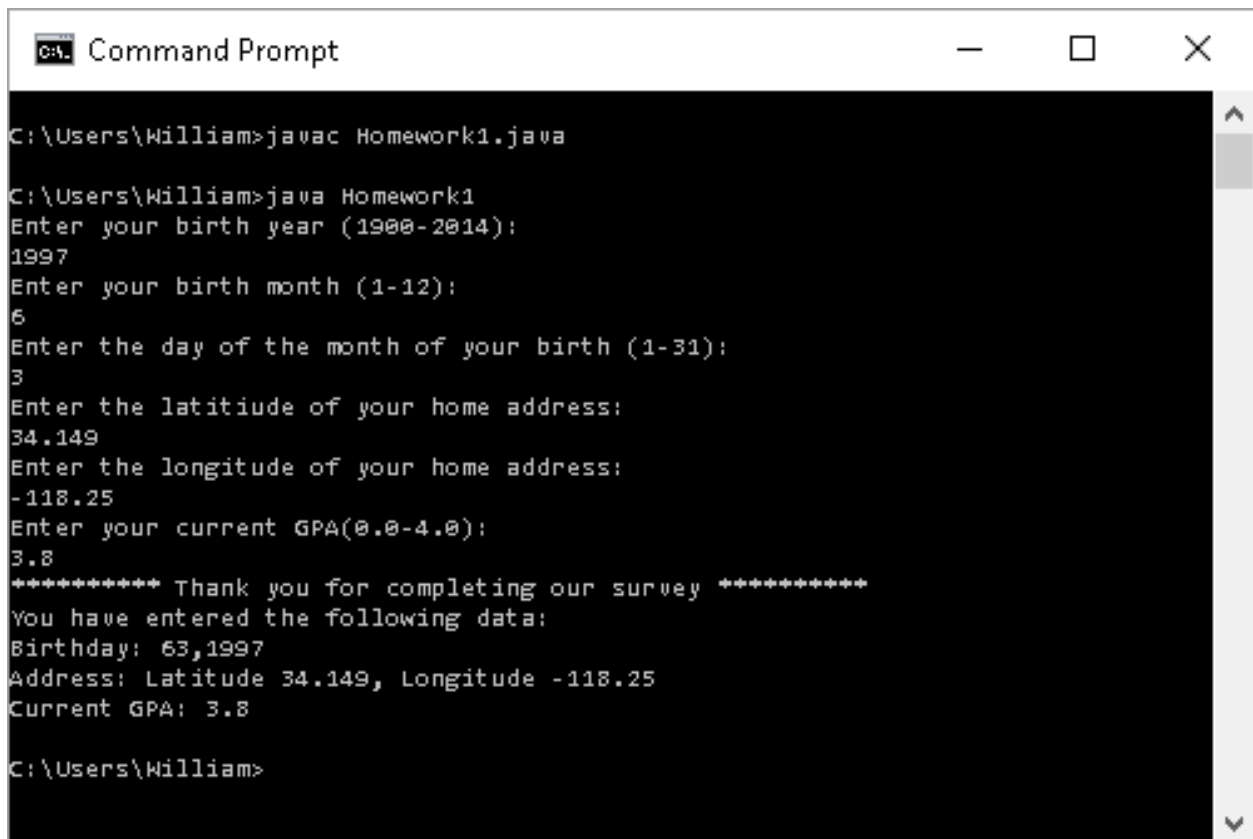
Above is a window capture of me compiling and executing the completed program.

Test Plan

Firstly, I coded the program so that it would ask for the data, and show the data.

The results were as shown below.

```
Command Prompt                                            —    □    ✕

C:\Users\William>javac Homework1.java

C:\Users\William>java Homework1
Enter your birth year (1900-2014):
1997
Enter your birth month (1-12):
6
Enter the day of the month of your birth (1-31):
3
Enter the latitiude of your home address:
34.149
Enter the longitude of your home address:
-118.25
Enter your current GPA(0.0-4.0):
3.8
********** Thank you for completing our survey **********
You have entered the following data:
Birthday: 63,1997
Address: Latitude 34.149, Longitude -118.25
Current GPA: 3.8

C:\Users\William>
```

Obviously, when looking at the Birthday, it's unclear what it is saying. I needed to add a switch selection to change the month (the number "6") to an actual word (in this case "June").

I also, still needed to add the degrees symbol into the longitude and latitude. This was simply done by adding Unicode.

After adding these few things, we were left with the final product.

I then tested the application with 2 more different sets of inputs. No errors occurred, and this was the results.

```
Command Prompt                                              —    □    ✕

C:\Users\William>javac Homework1.java

C:\Users\William>java Homework1
Enter your birth year (1900-2014):
1945
Enter your birth month (1-12):
11
Enter the day of the month of your birth (1-31):
14
Enter the latitiude of your home address:
738.234
Enter the longitude of your home address:
234.975
Enter your current GPA(0.0-4.0):
2.7
********** Thank you for completing our survey **********
You have entered the following data:
Birthday: November 14,1945
Address: Latitude 738.234°, Longitude 234.975°
Current GPA: 2.7

C:\Users\William>
```

```
Command Prompt                                              —    □    ✕

C:\Users\William>javac Homework1.java

C:\Users\William>java Homework1
Enter your birth year (1900-2014):
2006
Enter your birth month (1-12):
2
Enter the day of the month of your birth (1-31):
27
Enter the latitiude of your home address:
28.754
Enter the longitude of your home address:
-84.32
Enter your current GPA(0.0-4.0):
4.0
********** Thank you for completing our survey **********
You have entered the following data:
Birthday: Februrary 27,2006
Address: Latitude 28.754°, Longitude -84.32°
Current GPA: 4.0

C:\Users\William>
```