

Mastery Metric Conversion Error Log

Credit Name: CSE 2110 Procedural Programming 1

Assignment Name: Mastery Metric Conversion

Describe the errors you've encountered while working on this assignment. What caused the error and how do you overcome the error?

This code was very similar to other skillbuilder and mastery projects we have done thus far, so taking bits and pieces from each I created this code without an error. (I took pieces from the switch lesson mainly, and the rest was more basic code) (note: that this mastery did not ask for a method to be used whereas the other two did, so I used a switch statement here because it seemed more effective to me) (I still used methods on the other two programs because it asked for them specifically)

Error/Change

One thing to note is that a change I did make was switching the code to format the decimal places.

Originally I imported DecimalFormat into the program at the top

```
import java.text.DecimalFormat;
```

And was going to format each one with a line of code individually similar to election (note I never got to this hence why I used a screenshot from election mastery)

```
DecimalFormat Awbreypercentf = new DecimalFormat("#.00");  
DecimalFormat Martinezpercentf = new DecimalFormat("#.00");
```

This code however, also required a lot of extra code in the print statement which seemed inefficient to me

```
System.out.print("\nAwbrey's percent of the votes were " + (Awbreypercentf.format(Awbreypercent)) + "%");
```

I then switched plans and decided to format my number directly in the line, which gets rid of the need for a DecimalFormat line at the top of the program, as well as the extra lines for converting the decimals. I did this by using printf which allows you to format within the print statement. I then added %.2f, which is just saying to round the number to two decimal places. Lastly, outside of the quotation marks you have to add the variable/s that you want to round, you can separate these by a comma so the program knows which to round and by how much. All together this print statement looked like this.

```
System.out.printf("The value converted is: %.2f\n", answer);
```