**Project 2: Report**

**Obstacles I overcame:**

One notable obstacle I overcame while writing my program for this assignment involved nesting *if-else* statements within each other. I found that I was repeating many pieces of code within each other, leading to a longer and denser program. Furthermore, I did not add in curly braces in the start when working with the *if-else* statements which became a very big hassle later as I had to sort through my nested *if-else* statements and figure out where exactly I needed to add in some curly braces. Another notable obstacle I overcame while writing my program was the fact that the program didn’t seem to follow a logical flow. The first time I ran through the specs and decided how I wanted to structure the program, I found that when I wrote the code it was jumping all over the place in terms how I was dealing with each parameter. For example, I initially wrote the code without adding in the parameter regarding an amount paid over 250 thousand, so when I added it in, I tried adding it underneath all the other *if-else* statements I already wrote and the program never was able to reach the *if-else* statement that specified what to do when the user paid over 250 thousand because of the way I worded the preceding statements.

**List of test data:**

|  |  |  |  |
| --- | --- | --- | --- |
| Defendant Name | Amount Paid | Faking credentials (y or n) | Reason for test |
| “” | N/A | N/A | Demonstrates output when the name is an empty string |
| John Smith | -100 | N/A | Demonstrates output when the amount paid is less than 0 |
| John Smith | 100 | t | Demonstrates output when the user doesn’t input “y” or “n” |
| John Smith | 0 | n | Demonstrates that when the amount paid is 0, only the base fine of 20 thousand is applied |
| John Smith | 0 | y | Same as above but shows that faking credentials while paying 0 thousand has no effect |
| John Smith | 30 | n | Demonstrates output when the amount paid is less than or equal to 40 thousand |
| John Smith | 30 | y | Same as above but shows that faking credentials while paying 40 thousand or below has no effect |
| John Smith | 240 | n | Demonstrates output when the amount paid is greater than 40 thousand but less than or equal to 250 thousand |
| John Smith | 240 | y | Same as above but shows that faking credentials while paying above 40 thousand but less than or equal to 250 thousand increases the fine |
| John Smith | 260 | n | Demonstrates output when the amount paid is greater than 250 thousand |
| John Smith | 260 | y | Same as above but shows that faking credentials while paying above 250 thousand increases the fine |
| John Smith | 345.243553 | y/n | The point of testing this would be to make sure that the program rounds to exactly one digit to the right |