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Professor Smallberg

CS 31

Report for Project 2

1. This project was surprisingly difficult especially when it came to the logic part. There were actually many obstacles I overcame, however there were a few prominent ones. The first notable one was when I did not account for the fact that I would need to still add the duty for the first $1000 when I was writing the code to compute values 15000. With this problem also came making sure that the duty was still computed for values under 1000 and that the duty percentage was multiplied by the value and not necessarily 1000. Another problem I came across was figuring out how to make two separate cases for whether or not the cheese Type was “cheshire” or “stilton” for both values in between 1000/13000 (inclusive) and values over 13000. Finally, the last important obstacle I came across was making sure to multiply the second duty tax by 12000 (and not 13000) when the value was over 15000. This was confusing to me because I forgot that the second duty tax was only relevant for the additional 12000 on top of the 1000 and not the full 13000.
2. Test Cases:
3. “”, 300, “The Cheese Store”
   1. This was to test whether or not the program would stop the program and provide a message that an empty string was entered for the cheese type.
4. “cheshire”, -300, “The Cheese Store”
   1. This was to test whether or not the program would stop the program and provide a message saying that the value must be positive (when the input value is negative).
5. “stilton”, 0, “The Cheese Store”
   1. This was to test whether or not the program would stop the program and provide a message saying that the value must be positive (when the input value is 0).
6. “cheshire”, 800, “The Cheese Store”
   1. This was to test whether or not the program gave an expected output for a value of under 1000.
7. “red windsor”, 1000, “The Cheese Store”
   1. This was to test the “getline” method and make sure that “red windsor” was fully taken in AND to see whether the program would give an expected output at a value of 1000.
8. “cheshire”, 12100, “The Cheese Store”
   1. This was to test whether or not the program would give an expected output at a value of 1000 if the cheese type was cheshire or stilton.
9. “red windsor”, 12100, “The Cheese Store”
   1. This was to test whether or not the program would give an expected output when the value was in between 1000 and 13000.
10. “cheshire”, 12100, “The Cheese Store”
    1. This was to test whether or not the program would give an expected output for “cheshire” or “stilton” when the value was in between 1000 and 13000.
11. “red windsor”, 13000, “The Cheese Store”
    1. This was to test whether or not the program would give an expected output when the value was at 13000.
12. “stilton”, 13000, “The Cheese Store”
    1. This was to test whether or not the program would give an expected output for “cheshire” or “stilton” when the value was at 13000
13. “red windsor”, 13942, “The Cheese Store”
    1. This was to test whether or not the program would give an expected output when the value was greater than 13000
14. “stilton”, 13942, “The Cheese Store”
    1. This was to test whether or not the program would give an expected output for “cheshire” or “stilton” when the value was greater than 13000