Assignment: Vehicle, Car, Truck, Minivan
Credit:CSE 3130 Object-Oriented Programming 2

How has your program changed from planning to coding to now? Please explain?

This assignment was pretty easy and most of my code stayed the same as my original plan.
One thing that changed was what my vehicle variables were but that's because I made it before
teh d2l was updated so I just had to switch them out.

I had planned to only include code to just test the class without user input by just displaying
pre-made objects representative of real vehicles. I decided to change it to give the user the
option to make their own vehicle.

Original main code.

```java
Car car = new Car(20.4, 13.5, 5, 16.5, "white", true); // 2025 BMW M5 Sedan
Truck truck = new Truck(13.1, 9.4, 6, 68.5, "silver", 3729); // 2025 Ram 1500
Minivan minivan = new Minivan(12.2, 8.5, 8, 144.9, "red", true); // 2025 Honda Odyssey

System.out.println("2025 BMW M5 Sedan");
System.out.println(car);
System.out.println("");

System.out.println("2025 RAM 1500");
System.out.println(truck);
System.out.println("");

System.out.println("2025 Honda Odyssey");
System.out.println(minivan);
System.out.println("");
```

New main code.

```java
//User menu to see premade vehicles or make their own
System.out.println("(M)ake your own vehicle" + '\n' +
                   "(S)ee premade vehicles / test the classes");
action = input.next(); // Record user input

//Display a premade car, truck, and minivan
if(action.equalsIgnoreCase("s"))
{
    Car car = new Car(20.4, 13.5, 5, 16.5, "white", true); // 2025 BMW M5 Sedan
    Truck truck = new Truck(13.1, 9.4, 6, 68.5, "silver", 3729); // 2025 Ram 1500
    Minivan minivan = new Minivan(12.2, 8.5, 8, 144.9, "red", true); // 2025 Honda Odyssey

    System.out.println("2025 BMW M5 Sedan");
    System.out.println(car);
    System.out.println("");

    System.out.println("2025 RAM 1500");
    System.out.println(truck);
    System.out.println("");

    System.out.println("2025 Honda Odyssey");
    System.out.println(minivan);
    System.out.println("");

}
//Display menu for usesr to create their own car, truck, or minivan
else if(action.equalsIgnoreCase("m"))
{
    //Collect data for the Vehicle class
    System.out.println("Fuel economy in the city: ");
    fuelEconomyCity = input.nextDouble();

    System.out.println("Fuel economy on the highway: ");
    fuelEconomyHwy = input.nextDouble();
```

This was the only change to my initial planning.