**Module 2 Option 2 Critical Thinking Assignment**

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CSC320: Programming I

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**Source Code**

package module\_2\_option\_1\_critical\_thinking;

import java.util.Scanner;

import java.text.DecimalFormat;

public class Main {

public static void main(String[] args) {

final DecimalFormat df = new DecimalFormat("0.00");

String carModel;

String carMake;

int carYear;

Double carOdometerStart;

Double carOdometerEnd;

Double carGallonsUsed;

Double milesPerGallon;

Scanner userInput = new Scanner(System.in);

System.out.println("Please enter the car make/brand:");

carMake = userInput.nextLine();

System.out.println("Please enter the car model:");

carModel = userInput.nextLine();

System.out.println("Please enter the car year:");

carYear = userInput.nextInt();

System.out.println("Please enter the car's Odometer miles");

System.out.println(" at the start of trip with a full tank of gas:");

carOdometerStart = userInput.nextDouble();

System.out.println("Please enter the gallons of gas you");

System.out.println(" put in the car at the end of the trip:");

carGallonsUsed = userInput.nextDouble();

System.out.println("Please enter the car's Odometer miles");

System.out.println(" when you put in the gas:");

carOdometerEnd = userInput.nextDouble();

System.out.println("You car's info:");

System.out.println(" Make: " + carMake);

System.out.println(" Model: " + carModel);

System.out.println(" Year: " + carYear);

System.out.println("Trip start miles: " + carOdometerStart);

System.out.println(" Trip end miles: " + carOdometerEnd);

milesPerGallon = (carOdometerEnd - carOdometerStart)/carGallonsUsed;

System.out.println(" Approximate MPG: " + df.format(milesPerGallon));

userInput.close();

}

}

**Screenshot**

