Note:

- The assignment is designed to practice constructor, getter/setter and toString method.
- Create a separate project for each question and create separate file for each class.
- Try to test the functionality by using menu-driven program.

1. Loan Amortization Calculator

Implement a system to calculate and display the monthly payments for a mortgage loan. The system should:

- 1. Accept the principal amount (loan amount), annual interest rate, and loan term (in years) from the user.
- 2. Calculate the monthly payment using the standard mortgage formula:
 - **o** Monthly Payment Calculation:
 - monthlyPayment = principal * (monthlyInterestRate * (1 +
 monthlyInterestRate) ^ (numberOfMonths) / ((1 +
 monthlyInterestRate) ^ (numberOfMonths) 1)
 - Where monthlyInterestRate = annualInterestRate / 12 / 100 and numberOfMonths = loanTerm * 12
 - Note: Here ^ means power and to find it you can use Math.pow()
 method
- 3. Display the monthly payment and the total amount paid over the life of the loan, in Indian Rupees (₹).

Define the class LoanAmortizationCalculator with fields, an appropriate constructor, getter and setter methods, a toString method and business logic methods. Define the class LoanAmortizationCalculatorUtil with methods acceptRecord, printRecord, and menuList. Define the class Program with a main method and test the functionality of the utility class.

```
Program class:
package org.example.loancalc;
public class Program {
    public static void main(String[] args) {
        LoanAmortizationCalculatorUtil util = new LoanAmortizationCalculatorUtil();
        util.menuList();
    }
}

LoanAmortizationCalculator class:
package org.example.loancalc;
public class LoanAmortizationCalculator {

    private double principal;
    private double annualInterestRate;
    private int loanTerm; // in years

// Constructor
```

```
public LoanAmortizationCalculator(double principal, double annualInterestRate, int
loanTerm) {
    this.principal = principal;
    this.annualInterestRate = annualInterestRate;
    this.loanTerm = loanTerm:
  }
  // Getters and Setters
  public double getPrincipal() {
    return principal;
  public void setPrincipal(double principal) {
    this.principal = principal;
  }
  public double getAnnualInterestRate() {
    return annualInterestRate;
  public void setAnnualInterestRate(double annualInterestRate) {
    this.annualInterestRate = annualInterestRate;
  public int getLoanTerm() {
    return loanTerm;
  public void setLoanTerm(int loanTerm) {
    this.loanTerm = loanTerm;
  }
  // Method to calculate monthly payment
  public double calculateMonthlyPayment() {
    double monthlyInterestRate = annualInterestRate / 12 / 100;
    int numberOfMonths = loanTerm * 12;
    return principal * (monthlyInterestRate * Math.pow(1 + monthlyInterestRate,
numberOfMonths)) /
         (Math.pow(1 + monthlyInterestRate, numberOfMonths) - 1);
  // Method to calculate total payment over the loan period
  public double calculateTotalPayment() {
    return calculateMonthlyPayment() * loanTerm * 12;
  // toString method to display loan details
  @Override
  public String toString() {
```

```
return "Principal: ₹" + principal + "\nAnnual Interest Rate: " + annualInterestRate +
"%\nLoan Term: " + loanTerm + " years";
Util class:
package org.example.loancalc;
import java.util.Scanner;
public class LoanAmortizationCalculatorUtil {
  private LoanAmortizationCalculator calculator;
  // Method to accept user input
  public void acceptRecord() {
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter principal amount (₹): ");
    double principal = scanner.nextDouble();
    System.out.print("Enter annual interest rate (%): ");
    double interestRate = scanner.nextDouble();
    System.out.print("Enter loan term (in years): ");
    int loanTerm = scanner.nextInt();
    calculator = new LoanAmortizationCalculator(principal, interestRate, loanTerm);
  }
  // Method to display the monthly payment and total payment
  public void printRecord() {
    System.out.println(calculator.toString());
    System.out.printf("Monthly Payment: ₹%.2f%n",
calculator.calculateMonthlyPayment());
    System.out.printf("Total Payment: ₹%.2f%n", calculator.calculateTotalPayment());
  }
  // Method to show menu options
  public void menuList() {
    Scanner <u>scanner</u> = new Scanner(System.in);
    int choice;
   do {
       System.out.println("\n1. Enter loan details");
       System.out.println("2. Display payment details");
       System.out.println("3. Exit");
       System.out.print("Enter your choice: ");
       choice = scanner.nextInt();
       switch (choice) {
         case 1:
            acceptRecord();
            break;
```

```
case 2:
    if (calculator != null) {
        printRecord();
    } else {
        System.out.println("No loan details available. Please enter loan details first.");
    }
    break;
    case 3:
        System.out.println("Exiting...");
        break;
    default:
        System.out.println("Invalid choice, try again.");
    }
} while (choice != 3);
}
```

```
📃 Console 🗡 🗾 Main.java
                         LoanAmortizationCalculator.java
<terminated> Main (9) [Java Application] C:\Program Files\Eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.3.v20240426-1530\jre\bin\javaw.ex
1. Enter loan details
2. Display payment details
3. Exit
Enter your choice: 1
Enter principal amount (₹): 2000000
Enter annual interest rate (%): 7.5
Enter loan term (in years): 3
1. Enter loan details
2. Display payment details
3. Exit
Enter your choice: 2
Principal: ₹2000000.0
Annual Interest Rate: 7.5%
Loan Term: 3 years
Monthly Payment: ₹62212.44
Total Payment: ₹2239647.71
1. Enter loan details
2. Display payment details
3. Exit
Enter your choice: 3
Exiting...
```

2. Compound Interest Calculator for Investment

Develop a system to compute the future value of an investment with compound interest. The system should:

- 1. Accept the initial investment amount, annual interest rate, number of times the interest is compounded per year, and investment duration (in years) from the user.
- 2. Calculate the future value of the investment using the formula:
 - Future Value Calculation:
 - futureValue = principal * (1 + annualInterestRate / numberOfCompounds)^(numberOfCompounds * years)
 - o Total Interest Earned: totalInterest = futureValue principal
- 3. Display the future value and the total interest earned, in Indian Rupees (\mathfrak{F}).

Define the class <code>CompoundInterestCalculator</code> with fields, an appropriate constructor, getter and setter methods, a <code>toString</code> method and business logic methods. Define the class <code>CompoundInterestCalculatorUtil</code> with methods <code>acceptRecord</code>, <code>printRecord</code>, and <code>menuList</code>. Define the class <code>Program</code> with a <code>main</code> method to test the functionality of the utility class.

Program class:

```
package org.example.CompoundInterestCalc;
import java.util.Scanner;
public class Program {
  public static void main(String[] args) {
     CompoundInterestCalculatorUtil util = new
CompoundInterestCalculatorUtil();
    Scanner scanner = new Scanner(System.in);
    int choice;
    do {
       util.menuList();
       System.out.print("Enter your choice: ");
       choice = scanner.nextInt();
       switch (choice) {
          case 1:
            util.acceptRecord();
            break;
          case 2:
            util.printRecord();
            break;
          case 3:
            System.out.println("Exiting...");
            break:
          default:
            System.out.println("Invalid choice! Please try again.");
     \} while (choice != 3);
     scanner.close();
  }
}
```

CompoundInterestCalculator class:

```
package org.example.CompoundInterestCalc;
public class CompoundInterestCalculator {
  private double principal;
  private double annualInterestRate;
  private int numberOfCompounds;
  private int years;
  public CompoundInterestCalculator(double principal, double
annualInterestRate, int numberOfCompounds, int years) {
    this.principal = principal;
    this.annualInterestRate = annualInterestRate;
    this.numberOfCompounds = numberOfCompounds;
    this.years = years;
  }
  // Getter and Setter methods
  public double getPrincipal() {
    return principal;
  public void setPrincipal(double principal)
    this.principal = principal;
  public double getAnnualInterestRate() {
    return annualInterestRate;
  public void setAnnualInterestRate(double annualInterestRate) {
    this.annualInterestRate = annualInterestRate;
  public int getNumberOfCompounds() {
    return numberOfCompounds;
  public void setNumberOfCompounds(int numberOfCompounds) {
    this.numberOfCompounds = numberOfCompounds;
  public int getYears() {
    return years;
```

```
public void setYears(int years) {
     this.years = years;
  }
  // Business logic method to calculate the future value
  public double calculateFutureValue() {
    return principal * Math.pow(1 + (annualInterestRate / numberOfCompounds),
numberOfCompounds * years);
  public double calculateTotalInterest() {
    return calculateFutureValue() - principal;
  @ Override
  public String toString() {
    return "Principal: ₹" + principal +
         "\nAnnual Interest Rate: " + (annualInterestRate * 100) + "%" +
         "\nNumber of Compounds per Year: " + numberOfCompounds +
         "\nInvestment Duration: " + years + " years";
}
CompoundInterestCalculatorUtil class:
package org.example.CompoundInterestCalc;
import java.util.Scanner;
public class CompoundInterestCalculatorUtil {
  private Scanner scanner = new Scanner(System.in);
  private CompoundInterestCalculator calculator;
  // Method to accept user input
  public void acceptRecord() {
    System. out. println("Enter the initial investment amount (\mathfrak{T}): ");
    double principal = scanner.nextDouble();
     System.out.println("Enter the annual interest rate (as a decimal, e.g., 0.05 for
5%): ");
    double annualInterestRate = scanner.nextDouble();
    System.out.println("Enter the number of times the interest is compounded per
year: ");
```

```
int numberOfCompounds = scanner.nextInt();
    System.out.println("Enter the investment duration (in years): ");
    int years = scanner.nextInt();
    calculator = new CompoundInterestCalculator(principal, annualInterestRate,
numberOfCompounds, years);
  // Method to print the future value and interest earned
  public void printRecord() {
    double futureValue = calculator.calculateFutureValue();
    double totalInterest = calculator.calculateTotalInterest();
    System.out.println("\n--- Investment Summary ---");
     System.out.println(calculator);
    System.out.printf("Future Value: ₹%.2f\n", future Value);
    System.out.printf("Total Interest Earned: ₹%.2f\n", totalInterest);
  }
  // Method to display a menu
  public void menuList() {
    System.out.println("Compound Interest Calculator Menu:");
    System.out.println("1. Enter Investment Details");
    System.out.println("2. Show Results");
    System.out.println("3. Exit");
}
```

3. BMI (Body Mass Index) Tracker

Create a system to calculate and classify Body Mass Index (BMI). The system should:

- 1. Accept weight (in kilograms) and height (in meters) from the user.
- 2. Calculate the BMI using the formula:
 - o **BMI Calculation:** BMI = weight // (height * height)
- 3. Classify the BMI into one of the following categories:
 - o Underweight: BMI < 18.5
 - o Normal weight: $18.5 \le BMI < 24.9$
 - o Overweight: $25 \le BMI < 29.9$
 - Obese: BMI > 30
- 4. Display the BMI value and its classification.

Define the class BMITracker with fields, an appropriate constructor, getter and setter methods, a toString method, and business logic methods. Define the class BMITrackerUtil with methods acceptRecord, printRecord, and menuList. Define the class Program with a main method to test the functionality of the utility class.

```
Program class:

package org.example.bmi;

import java.util.Scanner;

public class Program {

public static void main(String[] args) {

BMITrackerUtil util = new BMITrackerUtil();

Scanner scanner = new Scanner(System.in);

int choice;

do {

util.menuList();
```

```
System.out.print("Enter your choice: ");
       choice = scanner.nextInt();
       switch (choice) {
          case 1:
            util.acceptRecord();
            break;
          case 2:
            util.printRecord();
            break;
            System.out.println("Exiting the program...");
            break;
          default:
            System.out.println("Invalid choice! Please try again.");
     } while (choice != 3);
     scanner.close();
  }
}
BMITracker class:
package org.example.bmi;
public class BMITracker {
  private double weight;
  private double height;
  public BMITracker(double weight, double height) {
     this.weight = weight;
     this.height = height;
  // Getter and Setter methods
  public double getWeight() {
     return weight;
  public void setWeight(double weight) {
    this.weight = weight;
  public double getHeight() {
     return height;
  public void setHeight(double height) {
     this.height = height;
  public double calculateBMI() {
```

```
return weight / (height * height);
  }
  public String classifyBMI() {
    double bmi = calculateBMI();
    if (bmi < 18.5) {
       return "Underweight";
     } else if (bmi >= 18.5 && bmi < 24.9) {
       return "Normal weight";
     \} else if (bmi >= 25 && bmi < 29.9) {
       return "Overweight";
     } else {
       return "Obese";
  }
  @Override
  public String toString() {
    return "Weight: " + weight + " kg\nHeight: " + height + " m"
  }
BMITrackerUtil class:
package org.example.bmi;
import java.util.Scanner;
public class BMITrackerUtil {
  private Scanner scanner = new Scanner(System.in);
  private BMITracker tracker;
  // Method to accept user input
  public void acceptRecord() {
    System.out.println("Enter your weight (in kilograms): ");
    double weight = scanner.nextDouble();
    System.out.println("Enter your height (in meters): ");
    double height = scanner.nextDouble();
    tracker = new BMITracker(weight, height);
  // Method to print the BMI value and classification
  public void printRecord() {
    double bmi = tracker.calculateBMI();
    String classification = tracker.classifyBMI();
    System.out.println("\n--- BMI Summary ---");
    System.out.println(tracker);
    System.out.printf("BMI: %.2f\n", bmi);
    System.out.println("Classification: " + classification);
  // Method to display a menu
```

```
public void menuList() {
    System.out.println("BMI Tracker Menu:");
    System.out.println("1. Enter Weight and Height");
    System.out.println("2. Show BMI and Classification");
    System.out.println("3. Exit");
}
```

```
■ BMITrackerUtil.java
                                          Program.java
BMI Tracker Menu:
1. Enter Weight and Height
2. Show BMI and Classification
3. Exit
Enter your choice: 1
Enter your weight (in kilograms):
Enter your height (in meters):
BMI Tracker Menu:
1. Enter Weight and Height
2. Show BMI and Classification
3. Exit
Enter your choice: 2
--- BMI Summary ---
Weight: 75.0 kg
Height: 6.0 m
BMI: 2.08
Classification: Underweight
BMI Tracker Menu:
1. Enter Weight and Height
2. Show BMI and Classification
3. Exit
Enter your choice: 3
Exiting the program...
```

4. Discount Calculation for Retail Sales

Design a system to calculate the final price of an item after applying a discount. The system should:

- 1. Accept the original price of an item and the discount percentage from the user.
- 2. Calculate the discount amount and the final price using the following formulas:

```
    Discount Amount Calculation: discountAmount = originalPrice * (discountRate / 100)
    Final Price Calculation: finalPrice = originalPrice - discountAmount
```

3. Display the discount amount and the final price of the item, in Indian Rupees (₹).

Define the class DiscountCalculator with fields, an appropriate constructor, getter and setter methods, a toString method, and business logic methods. Define the class DiscountCalculatorUtil with methods acceptRecord, printRecord, and menuList. Define the class Program with a main method to test the functionality of the utility class. Code:

```
package org.example.retails;
import java.util.Scanner;
public class Program {
  public static void main(String[] args) {
     DiscountCalculatorUtil util = new DiscountCalculatorUtil();
     Scanner scanner = new Scanner(System.in);
     int choice;
     do {
       util.menuList();
       System.out.print("Enter your choice: ");
       choice = scanner.nextInt();
       switch (choice) {
          case 1:
            util.acceptRecord();
            break;
          case 2:
            util.printRecord();
            break;
          case 3:
            System.out.println("Exiting the program...");
            break:
          default:
            System.out.println("Invalid choice! Please try again.");
     \} while (choice != 3);
     scanner.close();
  }
```

```
DiscountCalculator class:
package org.example.retails;
public class DiscountCalculator {
  private double originalPrice;
  private double discountRate;
  public DiscountCalculator(double originalPrice, double discountRate) {
     this.originalPrice = originalPrice;
     this.discountRate = discountRate;
  // Getter and Setter methods
  public double getOriginalPrice() {
     return originalPrice;
  public void setOriginalPrice(double originalPrice) }
     this.originalPrice = originalPrice;
  public double getDiscountRate() {
     return discountRate;
  public void setDiscountRate(double discountRate) {
     this.discountRate = discountRate;
  }
  public double calculateDiscountAmount() {
     return originalPrice * (discountRate / 100);
  public double calculateFinalPrice() {
     return originalPrice - calculateDiscountAmount();
  @Override
  public String toString() {
     return "Original Price: ₹" + originalPrice +
         "\nDiscount Rate: " + discountRate + "%";
}
DiscountCalculatorUtilclass:
package org.example.retails;
```

```
import java.util.Scanner;
public class DiscountCalculatorUtil {
  private Scanner scanner = new Scanner(System.in);
  private DiscountCalculator calculator;
  // Method to accept user input
  public void acceptRecord() {
    System.out.println("Enter the original price of the item (\mathsf{T}):");
    double originalPrice = scanner.nextDouble();
    System.out.println("Enter the discount rate (percentage): ");
    double discountRate = scanner.nextDouble();
    calculator = new DiscountCalculator(originalPrice, discountRate);
  }
  // Method to print the discount amount and final price
  public void printRecord() {
    double discountAmount = calculator.calculateDiscountAmount();
    double finalPrice = calculator.calculateFinalPrice();
    System.out.println("\n--- Price Summary ---");
    System.out.println(calculator);
    System.out.printf("Discount Amount: ₹%.2f\n", discountAmount);
    System.out.printf("Final Price: ₹%.2f\n", finalPrice);
  }
  // Method to display a menu
  public void menuList() {
    System.out.println("Discount Calculator Menu:");
    System.out.println("1. Enter Original Price and Discount Rate");
    System.out.println("2. Show Discount and Final Price");
    System.out.println("3. Exit");
```

```
📮 Console 🗶 🔟 Program.java
                         DiscountCalculator.java
                                             DiscountCalculatorUtil.java
Discount Calculator Menu:
1. Enter Original Price and Discount Rate
2. Show Discount and Final Price
Enter your choice: 1
Enter the original price of the item (₹):
Enter the discount rate (percentage):
Discount Calculator Menu:
1. Enter Original Price and Discount Rate
2. Show Discount and Final Price
3. Exit
Enter your choice: 2
 --- Price Summary ---
Original Price: ₹2000.0
Discount Rate: 20.0%
Discount Amount: ₹400.00
Final Price: ₹1600.00
Discount Calculator Menu:
1. Enter Original Price and Discount Rate
2. Show Discount and Final Price
Enter your choice: 3
Exiting the program...
```

5. Toll Booth Revenue Management

Develop a system to simulate a toll booth for collecting revenue. The system should:

- 1. Allow the user to set toll rates for different vehicle types: Car, Truck, and Motorcycle.
- 2. Accept the number of vehicles of each type passing through the toll booth.
- 3. Calculate the total revenue based on the toll rates and number of vehicles.
- 4. Display the total number of vehicles and the total revenue collected, in Indian Rupees (₹).

• Toll Rate Examples:

Car: ₹50.00
 Truck: ₹100.00
 Motorcycle: ₹30.00

Define the class TollBoothRevenueManager with fields, an appropriate constructor, getter and setter methods, a toString method, and business logic methods. Define the class TollBoothRevenueManagerUtil with methods acceptRecord, printRecord, and menuList. Define the class Program with a main method to test the functionality of the utility class.

```
Class Program:
package org.example.tollboothmanagement;
import java.util.Scanner;
public class Program {
```

```
public static void main(String[] args) {
    TollBoothRevenueManagerUtil util = new TollBoothRevenueManagerUtil();
    Scanner scanner = new Scanner(System.in);
    int choice:
    do {
       util.menuList();
       System.out.print("Enter your choice: ");
       choice = scanner.nextInt();
       switch (choice) {
         case 1:
            util.acceptRecord();
            break;
         case 2:
            util.printRecord();
            break:
         case 3:
            System.out.println("Exiting the program...");
            break;
         default:
            System.out.println("Invalid choice! Please try again.");
     \} while (choice != 3);
    scanner.close();
  }
TollBoothRevenueManagerUtil:
package org.example.tollboothmanagement;
import java.util.Scanner;
public class TollBoothRevenueManagerUtil {
  private Scanner scanner = new Scanner(System.in);
  private TollBoothRevenueManager manager;
  // Method to accept user input for toll rates and vehicle counts
  public void acceptRecord() {
    System.out.println("Enter the toll rate for Cars (₹): ");
    double carRate = scanner.nextDouble();
    System.out.println("Enter the toll rate for Trucks (₹): ");
    double truckRate = scanner.nextDouble();
    System.out.println("Enter the toll rate for Motorcycles (₹): ");
    double motorcycleRate = scanner.nextDouble();
```

```
manager = new TollBoothRevenueManager(carRate, truckRate, motorcycleRate);
    System.out.println("Enter the number of Cars passed: ");
    int carCount = scanner.nextInt();
    manager.setCarCount(carCount);
    System.out.println("Enter the number of Trucks passed: ");
    int truckCount = scanner.nextInt();
    manager.setTruckCount(truckCount);
    System.out.println("Enter the number of Motorcycles passed: ");
    int motorcycleCount = scanner.nextInt();
    manager.setMotorcycleCount(motorcycleCount);
  }
  // Method to print the total revenue and vehicle count
  public void printRecord() {
    double totalRevenue = manager.calculateTotalRevenue();
    int totalVehicles = manager.calculateTotalVehicles();
    System.out.println("\n--- Toll Booth Summary ---");
    System.out.println(manager);
    System.out.printf("Total Vehicles Passed: %d\n", totalVehicles);
    System.out.printf("Total Revenue Collected: ₹%.2f\n", totalRevenue);
  }
  // Method to display a menu
  public void menuList() {
    System.out.println("Toll Booth Revenue Manager Menu:");
    System.out.println("1. Enter Toll Rates and Vehicle Count");
    System.out.println("2. Show Total Revenue and Vehicle Count");
    System.out.println("3. Exit");
  }
TollBoothRevenueManager:
package org.example.tollboothmanagement;
public class TollBoothRevenueManager {
  private double carRate;
  private double truckRate;
  private double motorcycleRate;
  private int carCount;
  private int truckCount;
  private int motorcycleCount;
  public TollBoothRevenueManager(double carRate, double truckRate, double
motorcycleRate) {
    this.carRate = carRate;
    this.truckRate = truckRate;
```

```
this.motorcycleRate = motorcycleRate;
// Getter and Setter methods
public double getCarRate() {
  return carRate;
public void setCarRate(double carRate) {
  this.carRate = carRate;
public double getTruckRate() {
  return truckRate;
public void setTruckRate(double truckRate) {
  this.truckRate = truckRate;
public double getMotorcycleRate() {
  return motorcycleRate;
public void setMotorcycleRate(double motorcycleRate) {
  this.motorcycleRate = motorcycleRate;
public int getCarCount() {
  return carCount;
}
public void setCarCount(int carCount) {
  this.carCount = carCount;
public int getTruckCount() {
  return truckCount;
public void setTruckCount(int truckCount) {
  this.truckCount = truckCount;
public int getMotorcycleCount() {
  return motorcycleCount;
public void setMotorcycleCount(int motorcycleCount) {
  this.motorcycleCount = motorcycleCount;
```

```
// Business logic to calculate total revenue
  public double calculateTotalRevenue() {
    return (carCount * carRate) + (truckCount * truckRate) + (motorcycleCount *
motorcycleRate);
  // Business logic to calculate total vehicles
  public int calculateTotalVehicles() {
    return carCount + truckCount + motorcycleCount;
  @Override
  public String toString() {
    return "Car Rate: ₹" + carRate +
         "\nTruck Rate: ₹" + truckRate +
         "\nMotorcycle Rate: ₹" + motorcycleRate +
         "\nCars Passed: " + carCount +
         "\nTrucks Passed: " + truckCount +
         "\nMotorcycles Passed: " + motorcycleCount;
}
```

```
Toll Booth Revenue Manager Menu:
1. Enter Toll Rates and Vehicle Count
2. Show Total Revenue and Vehicle Count
3. Exit
Enter your choice: 1
Enter the toll rate for Cars (₹):
Enter the number of Cars passed:
Enter the number of Trucks passed:
Enter the number of Motorcycles passed:
Toll Booth Revenue Manager Menu:

    Enter Toll Rates and Vehicle Count
    Show Total Revenue and Vehicle Count

3. Exit
Enter your choice: 2
 --- Toll Booth Summary ---
Car Rate: ₹60.0
Truck Rate: ₹100.0
Motorcycle Rate: ₹40.0
Cars Passed: 5
Trucks Passed: 7
Motorcycles Passed: 5
Total Vehicles Passed: 17
Total Revenue Collected: ₹1200.00
Toll Booth Revenue Manager Menu:
1. Enter Toll Rates and Vehicle Count
2. Show Total Revenue and Vehicle Count
3. Exit
Exiting the program...
```