Time left 0:27:03

Question 4

Incomplete answer

Marked out of 16.00

Figure 1 is supposed to be the output of Program B1 and B2. Program B1 and B2 are how to calculate the depreciation of a vehicle by given the purchase price and rate of depreciation for 3 years of average car used. Complete Program B1 and B2 by answering the following questions.

NOTE: Please take note on the following answer format for this structure questions.
Please use only one white space for separating two words. For example class name: public class
No white space between operator/keyword and two words. For example: assignment/arithmetic/dot operators: a=10,myObj.x=25,myObj.myMethod()

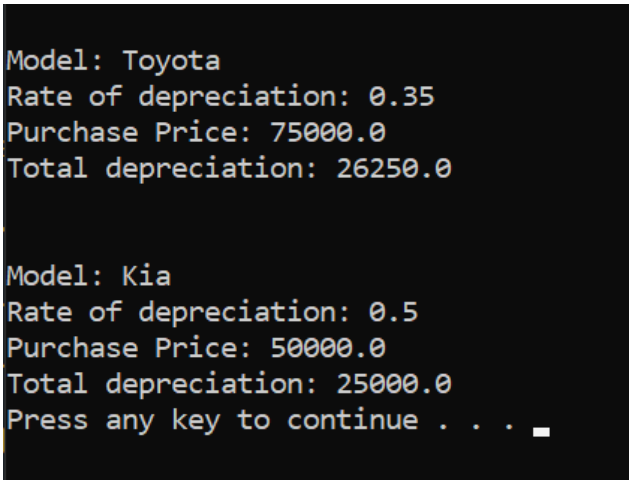

Figure 1: Output of Program B1 and B2

a. At line 13-line 18 (i-vi) in Program B1 , write the second constructor that initializes all of the private instance variables of the class UsedCar by using the this keyword.

b. At line 34 (vii) in Program B1, write a code to calculate the depreciation of a car. The depreciation of a car is given as the purchase price of the vehicle times with the rate of depreciation of the vehicle.

```
1.  //Program B1
2.  public class UsedCar  {
3.      private String model;
4.      private double depreciationRate;
5.      private double purchasePrice;
6.
7.      public UsedCar()  {
8.          model="";
9.          depreciationRate=0.0;
10.         purchasePrice=0.0;
11.     }
12.
13.     public UsedCar( String model , double depreciationRate , double purchasePrice )  {
14.
15.         this.model =model;
16.         this.depreciationRate =depreciationRate;
17.
18.         this.purchasePrice =purchasePrice;
19.     }
20.
21.     public String getModel()  {
22.         return model;
23.     }
24.
25.     public double getDepreciationRate()  {
26.         return depreciationRate;
27.     }
28.
29.     public double getPurchasePrice()  {
30.         return purchasePrice;
31.     }
32.
33.     public double calcDepreciationCost()  {
34.         return purchasePrice*depreciationRate ;
35.     }
36. }
37.
```

c. At line 3 – line 6 (viii- xii) in Program B2, complete the static method named displayInfo() to display the information of each item object and its cost.

d. At line 11 – line 12 (xiii-xiv) in Program B2, create two UsedCar objects as car1 and car2; and assign the values as shown in Figure 1.

e. At line 14- line 15 (xv-xvi) in Program B2, call a static method named displayInfo() that displays the information of each item object and its depreciation cost.

```
1. //Program B2
2. public class TestDepreciation {
3.       public static void displayInfo (_
4. UsedCar
5. obj )  {
6.          System.out.println("\n\nModel: " +
7. obj.getModel()
8. + "\nRate of depreciation: " +
9. obj.getDepreciationRate()
10. +
11.          "\nPurchase Price: " +
12. obj.getPurchasePrice()
13. + "\nTotal  depreciation: " +
14. obj.calDepreciationCost()
15. );
16.       }
17.
18.       public static void main(String[] args)  {
            UsedCar car1=new UsedCar("Toyota",0.35,75000.0) ;
            UsedCar car2=new UsedCar("Kia",0.5,50000.0) ;
```

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