PROGRAM 1 :

package shadowingproblem;

public class Bike {

int rNo;

long engineNo;

long chasisNo;

String color;

String brand;

String model;

String forkstyle;

int mileage;

public Bike(int rNo, long engineNo, long chasisNo, String color, String brand, String model, String forkstyle,int mileage) {

super();

this.rNo = rNo;

this.engineNo = engineNo;

this.chasisNo = chasisNo;

this.color = color;

this.brand = brand;

this.model = model;

this.forkstyle = forkstyle;

this.mileage = mileage;

}

void achiveTopSpeed()

{

System.out.println(model+" "+brand+" with rNo "+rNo +" and chasisNo "+chasisNo+" is attaining its top speed");

}

void givesAverage() {

System.out.println(brand+" "+ model +" gives a better mileage which is "+mileage+" kmpl");

}

}

package shadowingproblem;

import java.util.Scanner;

public class BikeApp {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

System.out.println("enter register no");

int rNo=sc.nextInt();

System.out.println("enter engine nmbr");

long engineNo=sc.nextLong();

System.out.println("enter chasis nmbr");

long chasisNo=sc.nextLong();

System.out.println("enter color");

sc.nextLine();

String color=sc.nextLine();

System.out.println("enter brand");

String brand=sc.nextLine();

System.out.println("enter model");

String model=sc.nextLine();

System.out.println("enter forkstyle");

String forkstyle=sc.nextLine();

System.out.println("enter mileage");

int mileage=sc.nextInt();

sc.close();

Bike b1=new Bike(rNo, engineNo, chasisNo, color, brand, model, forkstyle, mileage);

b1.achiveTopSpeed();

b1.givesAverage();

}

}

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PROGRAM 2 :

package shadowingproblem;

public class WashingMachine {

String brand;

String model;

int modelno;

String color;

String loadtype;

String capacity;

boolean warrantystatus;

String tubtype;

public WashingMachine(String brand, String model, String color,int modelno, String loadtype, String capacity,

boolean warrantystatus, String tubtype) {

super();

this.brand = brand;

this.model = model;

this.modelno = modelno;

this.color = color;

this.loadtype = loadtype;

this.capacity = capacity;

this.warrantystatus = warrantystatus;

this.tubtype = tubtype;

}

void Washclothes() {

System.out.println(brand+" "+model+" washing machine of "+color+" color"+loadtype+" is washing clothes");

}

void DryClothes() {

System.out.println(brand+" "+tubtype+" "+loadtype+" washing machine which has model nmbr : "+modelno+" is drying clothes");

}

}

package shadowingproblem;

import java.util.\*;

public class WmApp {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

System.out.println("enter brand");

String a=sc.next();

System.out.println("enter model");

String b=sc.next();

System.out.println("enter modelno");

int c=sc.nextInt();

System.out.println("enter color");

String d=sc.next();

System.out.println("enter loadtype");

String e=sc.next();

System.out.println("enter warrantystatus");

boolean f=sc.nextBoolean();

System.out.println("enter tubtype");

String g=sc.next();

sc.close();

WashingMachine w1=new WashingMachine(b, e, g, c, d, a, f, e);

System.out.println(a+" "+b+" "+c+" "+d+" "+e+" "+f+" "+g);

WashingMachine w2= new WashingMachine(e, b, g, c, d, a, f, e);

System.out.println(d+" "+b+" "+c+" "+a+" "+e+" "+f+" "+g);

w1.Washclothes();

w2.DryClothes();

}

}