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| --- | --- | --- |
|  | package carrental;  /\*\*  \*  \* @author Victor Masozera  \*/ public class carRental {  public static void main(String[] args) {                 //my test cases         Car mycar = new Car();         System.out.println("The car instance is : "+mycar.toString());                 Truck mytruck = new Truck();         System.out.println("The truck instance is : "+mytruck.toString());                 GarageTester gt = new GarageTester();         System.out.println("Garage Tester: "+gt.getExample());                   CarRentalContract crc = new CarRentalContract("Masozera","Kampala");             CarRental cr = new CarRental();          cr.addContract(crc);         System.out.println("My Contracts:"+cr.displayContracts());     }           public class Vehicle{         String Color = "red";                 public String getColor(){             return Color;         }         public String toString(){ // Method which overides the toString() method               return "This vehicle is "+Color;          }     }         public static class Car extends Vehicle{         boolean wintertires = false;          public String toString(){ //overriding the toString() method               return "This vehicle is "+Color+", and has winter tires:"+wintertires;          }     }     public static class Truck extends Vehicle{        boolean hastrailer = false;         public String toString(){ //overriding the toString() method              return "This vehicle is "+Color+", has trailer:"+hastrailer;           }     }     public static class Garage{         Vehicle nv = new Car();         Vehicle tp = new Truck();                         public String setVehicle(Vehicle parked){            return parked.toString();            //nv.toString();                   }         public String toString(){//overriding the toString() method              return tp.toString()+nv.toString();           }     }         public static class GarageTester{                 public String getExample(){             Truck tr = new Truck();             tr.Color = "Black";             tr.hastrailer = false;                         Garage gr = new Garage();             return gr.setVehicle(tr);         }     }     public static class Customer{                 String name = "Masozera";         String address = "Kampala";         }         public static class CarRentalContract{         Customer customer = new Customer();         Vehicle vehiclee = new Car();                 CarRentalContract(String name,String address){             [customer.name](http://cm.name/) = name;             customer.address = address;         }                         public String toString(){ //overriding the toString() method              return [customer.name](http://cm.name/)+" : "+vehiclee.toString();           }     }     public static class CarRental{         String carArray[] = new String[20];                 void addContract(CarRentalContract c1){             for(int i=0; i<carArray.length; i++){                 carArray[i] = c1.toString();             }         }                 String displayContracts(){                         for (String a : carArray){                                 return a;             }                         return "No Car Rental Contracts";         }     }        } |  |