SHEHANI SHIEN M. TALANGTALANG

IT 2A

public class Car {

private String brand;

private String origin;

private String plateNo;

private String chassisNo;

private double price;

private double speed; // keep speed

// No-argument constructor

public Car() {

this.brand = "Unknown";

this.origin = "Unknown";

this.plateNo = "No PlateNumber";

this.chassisNo = "No Chassis No Yet!";

this.price = 0.0;

this.speed = 0.0;

}

// Parameterized constructor

public Car(String brand, String origin, String plateNo,

String chassisNo, double price, double speed) {

this.brand = brand;

this.origin = origin;

this.plateNo = plateNo;

this.chassisNo = chassisNo;

this.price = price;

this.speed = speed;

}

// Method to display car information

public void displayInfo() {

String info = "";

info += "Brand: " + this.brand;

info += "\nOrigin: " + this.origin;

info += "\nPlateNo: " + this.plateNo;

info += "\nChassisNo: " + this.chassisNo;

info += "\nPrice: " + this.price;

info += "\nSpeed: " + this.speed + " km/h";

System.out.println(info);

System.out.println("-----------------------------");

}

}

public class CarTester {

public static void main(String[] args) {

Car[] cars = new Car[10];

cars[0] = new Car("BMW", "Germany", "BMW123", "CH001", 6000000, 250);

cars[1] = new Car("Cadillac", "USA", "CAD456", "CH002", 7500000, 240);

cars[2] = new Car("Daimler", "Germany", "DAI789", "CH003", 7000000, 230);

cars[3] = new Car("Cupra", "Spain", "CUP111", "CH004", 3500000, 220);

cars[4] = new Car("Audi", "Germany", "AUD222", "CH005", 5000000, 240);

cars[5] = new Car("Daewoo", "Korea", "DAE333", "CH006", 1200000, 180);

cars[6] = new Car("Brabus", "Germany", "BRA444", "CH007", 15000000, 260);

cars[7] = new Car("BYD", "China", "BYD555", "CH008", 2000000, 200);

cars[8] = new Car("Tesla", "USA", "TES666", "CH009", 8000000, 250);

cars[9] = new Car("Lamborghini", "Italy", "LAM777", "CH010", 20000000, 320);

// Display all car details

for (Car car : cars) {

car.displayInfo();

}

}

}

OUTPUT:

Brand: BMW

Origin: Germany

PlateNo: BMW123

ChassisNo: CH001

Price: 6000000.0

Speed: 250.0 km/h

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Brand: Cadillac

Origin: USA

PlateNo: CAD456

ChassisNo: CH002

Price: 7500000.0

Speed: 240.0 km/h

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Brand: Daimler

Origin: Germany

PlateNo: DAI789

ChassisNo: CH003

Price: 7000000.0

Speed: 230.0 km/h

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Brand: Cupra

Origin: Spain

PlateNo: CUP111

ChassisNo: CH004

Price: 3500000.0

Speed: 220.0 km/h

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Brand: Audi

Origin: Germany

PlateNo: AUD222

ChassisNo: CH005

Price: 5000000.0

Speed: 240.0 km/h

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Brand: Daewoo

Origin: Korea

PlateNo: DAE333

ChassisNo: CH006

Price: 1200000.0

Speed: 180.0 km/h

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Brand: Brabus

Origin: Germany

PlateNo: BRA444

ChassisNo: CH007

Price: 1.5E7

Speed: 260.0 km/h

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Brand: BYD

Origin: China

PlateNo: BYD555

ChassisNo: CH008

Price: 2000000.0

Speed: 200.0 km/h

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Brand: Tesla

Origin: USA

PlateNo: TES666

ChassisNo: CH009

Price: 8000000.0

Speed: 250.0 km/h

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Brand: Lamborghini

Origin: Italy

PlateNo: LAM777

ChassisNo: CH010

Price: 2.0E7

Speed: 320.0 km/h

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...Program finished with exit code 0

Press ENTER to exit console.