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IT 2A

public class Car {

private String brand;

private String logo;

private String origin;

private String color;

private String plateNo;

private String chassisNo;

private double price;

private double speed; // newly added

private double height; // newly added

// No-argument constructor

public Car() {

this.brand = "Unknown";

this.logo = "Unknown";

this.origin = "Unknown";

this.color = "No Color";

this.plateNo = "No PlateNumber";

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

this.price = 0.0;

this.speed = 0.0;

this.height = 0.0;

}

// Parameterized constructor

public Car(String brand, String logo, String origin,

String color, String plateNo, String chassisNo,

double price, double speed, double height) {

this.brand = brand;

this.logo = logo;

this.origin = origin;

this.color = color;

this.plateNo = plateNo;

this.chassisNo = chassisNo;

this.price = price;

this.speed = speed;

this.height = height;

}

// Method to display car information

public void displayInfo() {

String info = "";

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

info += "\nLogo: " + this.logo;

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

info += "\nColor: " + this.color;

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

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

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

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

info += "\nHeight: " + this.height + " m";

System.out.println(info);

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

}

}

public class CarTester {

public static void main(String[] args) {

// Create exactly 10 car objects

Car[] cars = new Car[10];

cars[0] = new Car("BMW", "BMW Logo", "Germany", "Black", "BMW123", "CH001", 6000000, 250, 1.7);

cars[1] = new Car("Cadillac", "Cadillac Logo", "USA", "White", "CAD456", "CH002", 7500000, 240, 1.8);

cars[2] = new Car("Daimler", "Daimler Logo", "Germany", "Silver", "DAI789", "CH003", 7000000, 230, 1.75);

cars[3] = new Car("Cupra", "Cupra Logo", "Spain", "Blue", "CUP111", "CH004", 3500000, 220, 1.6);

cars[4] = new Car("Audi", "Audi Logo", "Germany", "Gray", "AUD222", "CH005", 5000000, 240, 1.7);

cars[5] = new Car("Daewoo", "Daewoo Logo", "Korea", "Green", "DAE333", "CH006", 1200000, 180, 1.5);

cars[6] = new Car("Brabus", "Brabus Logo", "Germany", "Red", "BRA444", "CH007", 15000000, 260, 1.9);

cars[7] = new Car("BYD", "BYD Logo", "China", "Orange", "BYD555", "CH008", 2000000, 200, 1.6);

cars[8] = new Car("Tesla", "Tesla Logo", "USA", "Yellow", "TES666", "CH009", 8000000, 250, 1.7);

cars[9] = new Car("Lamborghini", "Lambo Logo", "Italy", "Purple", "LAM777", "CH010", 20000000, 320, 1.15);

// Display all car details

for (Car car : cars) {

car.displayInfo();

}

}

}

OUTPUT:

Brand: BMW

Logo: BMW Logo

Origin: Germany

Color: Black

PlateNo: BMW123

ChassisNo: CH001

Price: 6000000.0

Speed: 250.0 km/h

Height: 1.7 m

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Brand: Cadillac

Logo: Cadillac Logo

Origin: USA

Color: White

PlateNo: CAD456

ChassisNo: CH002

Price: 7500000.0

Speed: 240.0 km/h

Height: 1.8 m

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Brand: Daimler

Logo: Daimler Logo

Origin: Germany

Color: Silver

PlateNo: DAI789

ChassisNo: CH003

Price: 7000000.0

Speed: 230.0 km/h

Height: 1.75 m

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Brand: Cupra

Logo: Cupra Logo

Origin: Spain

Color: Blue

PlateNo: CUP111

ChassisNo: CH004

Price: 3500000.0

Speed: 220.0 km/h

Height: 1.6 m

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Brand: Audi

Logo: Audi Logo

Origin: Germany

Color: Gray

PlateNo: AUD222

ChassisNo: CH005

Price: 5000000.0

Speed: 240.0 km/h

Height: 1.7 m

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Brand: Daewoo

Logo: Daewoo Logo

Origin: Korea

Color: Green

PlateNo: DAE333

ChassisNo: CH006

Price: 1200000.0

Speed: 180.0 km/h

Height: 1.5 m

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Brand: Brabus

Logo: Brabus Logo

Origin: Germany

Color: Red

PlateNo: BRA444

ChassisNo: CH007

Price: 1.5E7

Speed: 260.0 km/h

Height: 1.9 m

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Brand: BYD

Logo: BYD Logo

Origin: China

Color: Orange

PlateNo: BYD555

ChassisNo: CH008

Price: 2000000.0

Speed: 200.0 km/h

Height: 1.6 m

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Brand: Tesla

Logo: Tesla Logo

Origin: USA

Color: Yellow

PlateNo: TES666

ChassisNo: CH009

Price: 8000000.0

Speed: 250.0 km/h

Height: 1.7 m

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Brand: Lamborghini

Logo: Lambo Logo

Origin: Italy

Color: Purple

PlateNo: LAM777

ChassisNo: CH010

Price: 2.0E7

Speed: 320.0 km/h

Height: 1.15 m

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