

```

public class Cardetails {

    public String color;
    public String brand;
    public String engineType;
    public int bootSpace;
    public boolean hasAC;
    public boolean hasMusicSystem;
    public boolean hasNavigation;
    public double price;
    public String carType;

    public Cardetails(String colour, String maker, String engtype,
int trunk, boolean haveAC, boolean haveMusicSystem, boolean haveNavigation,
double pr, String cType) {
        color = colour;
        brand = maker;
        engineType = engtype;
        bootSpace = trunk;
        hasAC = haveAC;
        hasMusicSystem = haveMusicSystem;
        hasNavigation = haveNavigation;
        price = pr;
        carType = cType;
    }
    public void startEngine() {
        System.out.println("Starting the engine");
    }

    // Method to stop the engine
    public void stopEngine() {
        System.out.println("Stopping the engine");
    }

    // Method to play music
    public void playMusic(String song) {
        if (hasMusicSystem) {
            System.out.println("Playing music " + song );
        } else {
            System.out.println("This car doesn't have a music
system");
        }
    }

    // Method to navigate
    public void navigate(String destination) {
        if (hasNavigation) {
            System.out.println("Setting a route to " + destination );
        } else {
            System.out.println("This car doesn't have a navigation
system");
        }
    }

    // Method to display car information
    public void display() {

        System.out.println("Color: " + color);
        System.out.println("Brand: " + brand);
        System.out.println("Engine Type: " + engineType);
        System.out.println("Boot Space: " + bootSpace);
    }
}

```

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        System.out.println("Air Conditioning: " + (hasAC ? "Yes" :
"No"));
        System.out.println("Music System: " + (hasMusicSystem ? "Yes"
: "No"));
        System.out.println("Navigation System: " + (hasNavigation ?
"Yes" : "No"));
        System.out.println("Price:" + price);
        System.out.println("Car Type: " + carType);
    }

    public static void main(String[] args) {
        Cardetails c = new Cardetails("Red", "BMW", "BS6", 400, true,
true, true, 37000, "SUV");
        c.startEngine();
        c.playMusic("Neela Nilave");
        c.navigate("hotel");
        c.stopEngine();
        c.display();
    }
}

```

Output

```

Starting the engine
Playing music Neela Nilave
Setting a route to hotel
Stopping the engine
Color: Red
Brand: BMW
Engine Type: BS6
Boot Space: 400
Air Conditioning: Yes
Music System: Yes
Navigation System: Yes
Price:37000.0
Car Type: SUV

```