

```

public class VehiclesDB {
    static String dsn = "carsVehicleSQL";
    static String dbUrl = "jdbc:odbc:" + dsn;
    static String user = "";
    static String password = "";

    static Connection conn = null;

    private static Connection getConnection()
    {
        try
        {
            conn = DriverManager.getConnection(dbUrl, user, password);
            return conn;
        }
        catch(SQLException e)
        {
            System.err.println(e);
            return null;
        }
    }

    public ArrayList<Vehicles> getProducts()
    {
        String sql = "SELECT vin, make, model, condition, value "
            + "From Vehicle "
            + "ORDER BY vin";
        ArrayList<Vehicles> products = new ArrayList();

        try
        {
            Connection connection = getConnection();
            Statement stmt = conn.createStatement();
            ResultSet rs = stmt.executeQuery(sql);
            {
                while (rs.next())
                {
                    String vin = rs.getString("Vin");
                    String make = rs.getString("Make");
                    String model = rs.getString("Model");
                    String condition = rs.getString("Condition");
                    Double value = rs.getDouble("Value");
                    Vehicles p = new Vehicles(vin, make, model, condition, value);
                    products.add(p);
                }
            }
            return products;
        }
    }
}

```

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public static Vehicles addProduct (String vin, String make, String model, String condition, double value)
{
    String sql = "INSERT INTO Vehicle "
        + "(Vin, Make, Model, Condition, Value)"
        + "VALUES "
        + "(" + vin + ", " + make + ", " + model + ", " + condition + ", " + value + ")";

    try {
        Connection connection = getConnection();
        Statement stmt = conn.createStatement();
        ResultSet rs = stmt.executeQuery(sql);
        {
            rs.close();
            return null;
        }
    }
    catch (SQLException e)
    {
        System.err.println(e);
        return null;
    }
}

public Vehicles deleteProduct (String name)
{
    String sql = "DELETE FROM Vehicle "
        + "WHERE Vin = " + name + "'";

    try {
        Connection connection = getConnection();
        Statement stmt = conn.createStatement();
        ResultSet rs = stmt.executeQuery(sql);
        {
            rs.close();
            return null;
        }
    }
    catch (SQLException e)
    {
        System.err.println(e);
        return null;
    }
}
}

```

```

public class Vehicles {
    private String vin;
    private String make;
    private String model;
    private String condition;
    private double value;

    public Vehicles()
    {
        setVin("default name");
        setMake("default fabric");
        setModel("default model");
        setCondition("default manufacturer");
        setValue(0.00);
    }

    public Vehicles(String aVin, String aMake, String aModel, String aCondition, double aValue)
    {
        setVin(aVin);
        setMake(aMake);
        setModel(aModel);
        setCondition(aCondition);
        setValue(aValue);
    }

    public String getVin() {
        return vin;
    }

    public void setVin(String vin) {
        this.vin = vin;
    }

    public String getMake() {
        return make;
    }

    public void setMake(String make) {
        this.make = make;
    }

    public String getModel() {
        return model;
    }

    public void setModel(String model) {
        this.model = model;
    }
}

```

```

<title>Vehicle VIN</title>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
</head>
<body>

<form action = "VehicleAdd.jsp">

New Vehicle VIN: <input type = "text" name = "txtVin">
<br/><br/>
New Vehicle Make: <input type = "text" name = "txtMake">
<br/><br/>
New Vehicle Model: <input type = "text" name = "txtModel">
<br/><br/>
New Vehicle Condition: <input type = "text" name = "txtCondition">
<br/><br/>
New Vehicle Value: <input type = "text" name = "txtValue">
<br/><br/>

<input type = "submit" value = "SUBMIT">

</form>

```

```

<title>Vehicle VIN</title>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
</head>
<body>
<%
    String vin = request.getParameter("txtVin");
    String make = request.getParameter("txtMake");
    String model = request.getParameter("txtModel");
    String condition = request.getParameter("txtCondition");
    String value = request.getParameter("txtValue");

    if(vin != null && make != null && model != null && condition != null && value != null)
    {
        try{
            double price = Double.parseDouble(value);
            vehicles.Vehicles vehicle = VehiclesDB.addProduct(vin, make, model, condition, price);

            out.print("Vehicle Successfully Added");
        }catch(Exception err)
        {
            out.print("Not All Fields Entered");
        }
    }
    else
    {
        out.print("Duplicate Vin");
    }
%>

```

```

<form action = "VehicleSearch.jsp">

Search Vehicle VIN: <input type = "text" name = "txtVehicle">
<br> <br>

<input type = "submit" value = "SUBMIT">

</form>

```

```

<title>Vehicle Search</title>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
</head>
<body>
<%
    String name = request.getParameter("txtVehicle");

    if(name != null)
    {
        try{
            vehicles.Vehicles vehicle = vehicles.VehiclesDB.getProduct(name);

            out.print("Vin: " + vehicle.getVin() + "\n" +
                "<br /><br />Make: " + vehicle.getMake() + "\n" +
                "<br /><br />Model: " + vehicle.getModel() + "\n" +
                "<br /><br />Condition: " + vehicle.getCondition() +
                "<br /><br />Value: " + vehicle.getValue());
        }catch(Exception err)
        {
            out.print("Vin Unknown");

        }
    }
    else
    {
        out.print("Vin Unknown");
    }
%>

```