Practice project:

Index.jsp:

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Product Details</title>
</head>
<body>
      <div align="center">
      <form method="post" action="Product">
      <h2>Product Details</h2>
            Id: <input type="number" name="id" required>
            <br/>
            <br/>
            Name: <input type="text" name="name" required>
            <br/>
            <br/>
            Color: <input type="text" name="color" required>
            <br/>
            <br/>
            Price: <input type="number" name="price" required>
            <br/>
            <br/>
            <input type="submit" value="Submit">
      </form>
      </div>
</body>
</html>
```

Profile.jsp:

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<%@page import="java.util.ArrayList"%>
<%@page import="com.products.ProductClass"%>
<%@page import="java.util.Iterator"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Product Profile</title>
</head>
<body>
<%
ArrayList<ProductClass> p1 = (ArrayList)request.getAttribute("data");
%>
<div align="center">
```

```html
<table border="1">
<tr>
<th>ID</th>
<th>Name</th>
<th>Color</th>
<th>Price</th>
</tr>
<%
if (request.getAttribute("data") != null) {
Iterator<ProductClass> iterator = p1.iterator();
while (iterator.hasNext()) {
ProductClass pc = iterator.next();
%>
<tr>
<td><%=pc.getId()%></td>
<td><%=pc.getName()%></td>
<td><%=pc.getColor()%></td>
<td><%=pc.getPrice()%></td>
</tr>
<%
}
}
%>
</table>
</div>
</body>
</html>
```

Product.java:

```java
package com.products;
import java.io.IOException;
import java.io.PrintWriter;
import java.util.ArrayList;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

/**
 * Servlet implementation class Product
 */
@WebServlet("/Product")
public class Product extends HttpServlet {
	private static final long serialVersionUID = 1L;

	/**
	 * @see HttpServlet#HttpServlet()
	 */
	public Product() {
		super();
```

```java
            // TODO Auto-generated constructor stub
    }

    protected void processRequest(HttpServletRequest request,
HttpServletResponse response)
                throws ServletException, IOException {
        PrintWriter out = response.getWriter();
        response.setContentType("text/html;charset=UTF-8");
        out.println("<!DOCTYPE html>");
        out.println("<html>");
        out.println("<head>");
        out.println("<title>Product Details Portal</title>");
        out.println("</head>");
        out.println("<body>");
        try {
            int id = Integer.parseInt(request.getParameter("id"));
            String name = request.getParameter("name");
            String color = request.getParameter("color");
            float price = Float.parseFloat(request.getParameter("price"));

            ProductClass product1 = new ProductClass(id, name, color,
price);
//          product1 = new ProductClass(id, name, color, price));

            HttpSession session = request.getSession();
            session.setAttribute("data", product1);
            request.setAttribute("data", product1.getProductDetails());
            RequestDispatcher rd =
request.getRequestDispatcher("profile.jsp");
            rd.forward(request, response);

            out.println("</body>");
            out.println("</html>");

        } catch (NumberFormatException e) {
            out.println(e);
        } catch (Exception e) {
            out.println(e);
        }
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
     *      response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse
response)
                throws ServletException, IOException {
        processRequest(request, response);

    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
     *      response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse
response)
                throws ServletException, IOException {
```

```java
            processRequest(request, response);
        }
}
```

productClass.java:

```java
package com.products;
import java.util.ArrayList;

public class ProductClass{
        private int id;
        private String name;
        private String color;
        private float price;

        public ProductClass(int id, String name, String color, float price){
            this.id=id;
            this.name=name;
            this.color=color;
            this.price=price;
        }

        public void setId(int id) {
            this.id = id;
        }

        public void setName(String name) {
            this.name = name;
        }

        public void setColor(String color) {
            this.color = color;
        }

        public void setPrice(float price) {
            this.price = price;
        }

        public int getId() {
            return id;
        }

        public String getName() {
            return name;
        }

        public String getColor() {
            return color;
        }

        public float getPrice() {
            return price;
        }

        public ArrayList<ProductClass> getProductDetails()
```

```java
    {
            ArrayList<ProductClass> productList = new ArrayList<ProductClass>();

            productList.add(new ProductClass(id, name, color, price));

             for (ProductClass s : productList)
                {
                        System.out.print("ID, Name, Color, and Price of the
product are : ");
                        System.out.println(s.id + " " + s.name + " " + s.color
+ " " + s.price);
                }
            return productList;
    }}
```

Web.xml:

```xml
<!DOCTYPE web-app PUBLIC
"-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
"http://java.sun.com/dtd/web-app_2_3.dtd" >
<element>
<web-app>
 <display-name>Archetype Created Web Application</display-name>
 <servlet>
 <servlet-name>Product</servlet-name>
 <display-name>Product</display-name>
 <description></description>
 <servlet-class>com.Product</servlet-class>
 </servlet>
 <servlet>
 <servlet-name>ProductClass</servlet-name>
 <display-name>ProductClass</display-name>
 <description></description>
 <servlet-class>com.ProductClass</servlet-class>
 </servlet>
 <servlet>
 <servlet-name>Product1</servlet-name>
 <display-name>Product1</display-name>
 <description></description>
 <servlet-class>com.Product</servlet-class>
 </servlet>
 <servlet-name>Product1</servlet-name>
 <url-pattern>/Product1</url-pattern>
</web-app>
</element>
<web-app id="WebApp_ID">
      <display-name>project</display-name>
      <welcome-file-list>
            <welcome-file>index.html</welcome-file>
            <welcome-file>index.htm</welcome-file>
            <welcome-file>index.jsp</welcome-file>
            <welcome-file>default.html</welcome-file>
            <welcome-file>default.htm</welcome-file>
            <welcome-file>default.jsp</welcome-file>
      </welcome-file-list>
```

```
</web-app>
```