Java Seminar

Question 5,6,7,8

addToCart.jsp

<%@ **page** import="java.sql.Connection" %>  
<%@ **page** import="java.sql.DriverManager" %>  
<%@ **page** import="java.sql.PreparedStatement" %>  
<%@ **page** import="java.sql.ResultSet" %>  
<%  
 String customer\_id = (String) session.getAttribute("customer\_id");  
 if (customer\_id != null) {  
 if (request.getParameter("id") != null) {  
 int book\_id = Integer.*parseInt*(request.getParameter("id"));  
 int quantity = request.getParameter("quantity") == null ? 1 : Integer.*parseInt*(request.getParameter("search"));  
 try {  
 final String url = "jdbc:mysql://localhost:3306/library";  
 final String username = "root";  
 final String password = "";  
 Class.*forName*("com.mysql.cj.jdbc.Driver");  
 Connection con = DriverManager.*getConnection*(url, username, password);  
 PreparedStatement ps = con.prepareStatement(  
 "select cart\_item\_id, quantity from cart where book\_id = ? and customer\_id = ?"  
 );  
 ps.setInt(1, book\_id);  
 ps.setInt(2, Integer.*parseInt*(customer\_id));  
 ResultSet rs = ps.executeQuery();  
 if (rs.next()) {  
 int cart\_item\_id = rs.getInt(1);  
 quantity += rs.getInt(2);  
 ps = con.prepareStatement(  
 "update cart set quantity=? where cart\_item\_id = ?"  
 );  
 ps.setInt(1, quantity);  
 ps.setInt(2, cart\_item\_id);  
 ps.executeUpdate();  
 } else {  
 ps = con.prepareStatement(  
 "insert into cart(customer\_id, book\_id, quantity) value(?,?,?)"  
 );  
 ps.setInt(1, Integer.*parseInt*(customer\_id));  
 ps.setInt(2, book\_id);  
 ps.setInt(3, quantity);  
 ps.executeUpdate();  
 }  
 con.close();  
 } catch (Exception e) {  
 e.printStackTrace();  
 }  
 String redirectURL = "cart.jsp";  
 response.sendRedirect(redirectURL);  
 } else {  
 String redirectURL = "catalog.jsp";  
 response.sendRedirect(redirectURL);  
 }  
 } else {  
 String redirectURL = "index.jsp";  
 response.sendRedirect(redirectURL);  
 }  
%>

Cart.jsp

<%@ **page** import="java.sql.Connection" %>  
<%@ **page** import="java.sql.DriverManager" %>  
<%@ **page** import="java.sql.PreparedStatement" %>  
<%@ **page** import="java.sql.ResultSet" %>  
<%  
 String customer\_id = (String) session.getAttribute("customer\_id");  
 if (customer\_id != null) {  
 float total = 0;  
  
%>  
<**jsp:include** page="header.jsp"/>  
<div class="section">  
 <div class="container">  
 <div class="row">  
 <div class="col-md-12 order-details">  
 <div class="section-title text-center">  
 <h3 class="title">Your Order</h3>  
 </div>  
 <div class="order-summary">  
 <div class="order-col">  
 <div><strong>PRODUCT</strong></div>  
 <div><strong>TOTAL</strong></div>  
 </div>  
 <div class="order-products">  
 <%  
 try {  
 final String url = "jdbc:mysql://localhost:3306/library";  
 final String username = "root";  
 final String password = "";  
 Class.*forName*("com.mysql.cj.jdbc.Driver");  
 Connection con = DriverManager.*getConnection*(url, username, password);  
 PreparedStatement ps = con.prepareStatement("SELECT cart.quantity, books.name, books.price FROM `cart` inner join books on cart.book\_id=books.book\_id where customer\_id = ?");  
 ps.setInt(1, Integer.*parseInt*(customer\_id));  
 ResultSet rs = ps.executeQuery();  
 while (rs.next()) {  
 total += (rs.getInt(1) \* rs.getFloat(3));  
 %>  
 <div class="order-col">  
 <div><%=rs.getInt(1)%> x <%=rs.getString(2)%>  
 </div>  
 <div>Rs. <%=(rs.getInt(1) \* rs.getFloat(3))%>  
 </div>  
 </div>  
 <%  
  
 }  
 con.close();  
 } catch (Exception e) {  
 e.printStackTrace();  
 }  
 %>  
 </div>  
 <div class="order-col">  
 <div>Shiping</div>  
 <div><strong>FREE</strong></div>  
 </div>  
 <div class="order-col">  
 <div><strong>TOTAL</strong></div>  
 <div><strong class="order-total">Rs. <%=total%>  
 </strong></div>  
 </div>  
 </div>  
 <div class="input-checkbox">  
 <input type="checkbox" id="terms">  
 <label for="terms">  
 <span></span>  
 I've read and accept the <a href="#">terms & conditions</a>  
 </label>  
 </div>  
 <a href="#" class="col-md-3 primary-btn order-submit">Place order</a>  
 </div>  
 </div>  
 </div>  
</div>  
<**jsp:include** page="footer.jsp"/>  
<%  
 } else {  
 String redirectURL = "index.jsp";  
 response.sendRedirect(redirectURL);  
 }  
%>

Catalog.jsp

<**jsp:include** page="header.jsp"/>  
<%@ **page** import="java.text.MessageFormat" %>  
<%@ **page** import="java.sql.\*" %>  
<%@ **page** import="java.util.Objects" %>  
<%!  
 public String generateProduct(String id, String name, String image, String price, String author) {  
 Object[] params = new Object[]{id, name, image, price, author};  
 return MessageFormat.*format*(  
 "<div class='product'>" +  
 " <div class='product-img'>" +  
 " <img class='text-center fa-align-center glyphicon-align-center' src='./img/" + image + "' alt='" + name + "'>" +  
 " </div>" +  
 " <div class='product-body '>" +  
 " <p class='product-category'>{4}</p>" +  
 " <h3 class='product-name'><a href='product.jsp?id=" + id + "'>{1}</a></h3>" +  
 " <h4 class='product-price'>{3}</h4>" +  
 " <div class='product-rating'>" +  
 " <i class='fa fa-star'></i>" +  
 " <i class='fa fa-star'></i>" +  
 " <i class='fa fa-star'></i>" +  
 " <i class='fa fa-star'></i>" +  
 " <i class='fa fa-star'></i>" +  
 " </div>" +  
 " </div>" +  
 " <div class='add-to-cart'>" +  
 " <button class='add-to-cart-btn' onclick='javascript:window.location.replace(\"addtocart.jsp?id=" + id + "\")'>" +  
 " <i class='fa fa-shopping-cart'></i> add to cart" +  
 " </button>" +  
 " </div>" +  
 "</div>", params);  
 }  
%>  
<style>  
 img {  
 border-radius: 10px;  
 offset-start: 40px;  
 left: 200px;  
 margin-top: 30px;  
 margin-left: 85px;  
 text-align: center;  
 **!important**;  
 align-content: center;  
 **!important**;  
 align-items: center;  
 **!important**;  
 align-self: center;  
 **!important**;  
 text-align-all: center;  
 **!important**;  
 }  
</style>  
<div class="section">  
 <div class="container center-block ">  
 <div class="row">  
 <div class="col-md-12">  
 <div class="section-title">  
 <h3 class="title">Our Products</h3>  
 </div>  
 </div>  
 <%  
 int counter = -1;  
 String search = request.getParameter("search") == null ? "%%" : "%" + request.getParameter("search") + "%";  
 try {  
 final String url = "jdbc:mysql://localhost:3306/library";  
 final String username = "root";  
 final String password = "";  
 Class.forName("com.mysql.cj.jdbc.Driver");  
 Connection con = DriverManager.getConnection(url, username, password);  
 PreparedStatement ps = con.prepareStatement("select books.book\_id, books.name, books.url, books.price, authors.first\_name, authors.last\_name from books inner join authors on books.author\_id = authors.author\_id where name like ?");  
 ps.setString(1, search);  
 ResultSet rs = ps.executeQuery();  
 while (rs.next()) {  
 counter += 1;  
 if (counter % 4 == 0) {  
 %>  
 <div class="col-md-12" style="margin-bottom:60px">  
 <div class="row">  
 <div class="products-tabs">  
 <div class="products-slick" data-nav="#slick-nav-1">  
 <%  
 }  
 String id = rs.getString(1);  
 String name = rs.getString(2);  
 String image = rs.getString(3);  
 String price = "Rs. " + rs.getString(4);  
 String author = rs.getString(5) + " " + rs.getString(6);  
 System.out.println(name);  
 %>  
 <div>  
 <%=generateProduct(id, name, image, price, author)%>  
 </div>  
 <%  
 if (counter % 4 == 3) {  
 %>  
 </div>  
 </div>  
 </div>  
 </div>  
 <%  
 }  
 }  
 con.close();  
 } catch (Exception e) {  
 e.printStackTrace();  
 }  
 if (counter % 4 != 3) {%></div></div></div></div><%}%>  
 </div>  
 </div>  
</div>  
<**jsp:include** page="footer.jsp"/>

Footer.jsp

<footer id="footer">  
 <div id="bottom-footer" class="section">  
 <div class="container">  
 <div class="row">  
 <div class="col-md-12 text-center">  
 <span class="copyright">  
 Copyright &copy;<script>document.write(new Date().getFullYear());</script> All rights reserved</a>  
 </span>  
 </div>  
 </div>  
 </div>  
 </div>  
</footer>  
<script src="js/jquery.min.js"></script>  
<script src="js/bootstrap.min.js"></script>  
<script src="js/slick.min.js"></script>  
<script src="js/nouislider.min.js"></script>  
<script src="js/jquery.zoom.min.js"></script>  
<script src="js/main.js"></script>  
</body>  
</html>

Header.jsp

<%@ **page** import="java.sql.Connection" %>  
<%@ **page** import="java.sql.PreparedStatement" %>  
<%@ **page** import="java.sql.DriverManager" %>  
<%@ **page** import="java.sql.ResultSet" %>  
<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="utf-8">  
 <meta http-equiv="X-UA-Compatible" content="IE=edge">  
 <meta name="viewport" content="width=device-width, initial-scale=1">  
 <title>Library Online Store</title>  
 <link href="https://fonts.googleapis.com/css?family=Montserrat:400,500,700" rel="stylesheet">  
 <link type="text/css" rel="stylesheet" href="css/bootstrap.min.css"/>  
 <link type="text/css" rel="stylesheet" href="css/slick.css"/>  
 <link type="text/css" rel="stylesheet" href="css/slick-theme.css"/>  
 <link type="text/css" rel="stylesheet" href="css/nouislider.min.css"/>  
 <link rel="stylesheet" href="css/font-awesome.min.css">  
 <link type="text/css" rel="stylesheet" href="css/style.css"/>  
 <script src="https://oss.maxcdn.com/html5shiv/3.7.3/html5shiv.min.js"></script>  
 <script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>  
</head>  
<body>  
<header>  
 <div id="header">  
 <div class="container">  
 <div class="row">  
 <div class="col-md-7">  
 <div class="header-search">  
 <form id="search">  
 <input class="input" name="search" placeholder="Search here">  
 <button class="search-btn">Search</button>  
 </form>  
 <script>  
 let form = document.querySelector("#search");  
 form.addEventListener('submit', e => {  
 e.preventDefault()  
 window.location.replace("catalog.jsp?search=" + form.search.value)  
 })  
 </script>  
 </div>  
 </div>  
 <div class="col-md-5 clearfix">  
 <div class="header-ctn">  
 <div>  
 <a href="catalog.jsp">  
 <i class="fa fa-book"></i>  
 <span>Catalog</span>  
 </a>  
 </div>  
 <%  
 String customer\_id = (String) session.getAttribute("customer\_id");  
 if (customer\_id != null) {  
 int cart\_size = 0;  
 try {  
 final String url = "jdbc:mysql://localhost:3306/library";  
 final String username = "root";  
 final String password = "";  
 Class.*forName*("com.mysql.cj.jdbc.Driver");  
 Connection con = DriverManager.*getConnection*(url, username, password);  
 PreparedStatement ps = con.prepareStatement("select count(cart\_item\_id) from cart where customer\_id = ?");  
 ps.setString(1, customer\_id);  
 ResultSet rs = ps.executeQuery();  
 if (rs.next()) {  
 cart\_size = rs.getInt(1);  
  
 }  
 con.close();  
 } catch (Exception e) {  
 e.printStackTrace();  
 }  
 %>  
 <div>  
 <a href="signout.jsp">  
 <i class="fa fa-sign-out"></i>  
 <span>Sign Out</span>  
 </a>  
 </div>  
 <div>  
 <a href="cart.jsp">  
 <i class="fa fa-shopping-cart"></i>  
 <span>Your Cart</span>  
 <div class="qty"><%=cart\_size%>  
 </div>  
 </a>  
 </div>  
 <%  
 } else {  
 %>  
 <div>  
 <a href="index.jsp">  
 <i class="fa fa-sign-in"></i>  
 <span>Sign In</span>  
 </a>  
 </div>  
 <%  
 }  
 %>  
 </div>  
 </div>  
 </div>  
 </div>  
 </div>  
</header>

Index.jsp

<%  
 String customer\_id = (String) session.getAttribute("customer\_id");  
 if (customer\_id == null) {%>  
<**jsp:include** page="header.jsp"/>  
<div class="section">  
 <div class="container">  
 <div class="row">  
 <div class="col-md-12">  
 <div class="row">  
 <div class="col-md-7">  
 <form class="billing-details">  
 <div class="section-title">  
 <h3 class="title">Create New Account</h3>  
 </div>  
 <div class="form-group">  
 <input class="input" type="text" name="name" placeholder="First Name">  
 </div>  
 <div class="form-group">  
 <input class="input" type="email" name="email" placeholder="Email">  
 </div>  
 <div class="form-group">  
 <input class="input" type="password" name="password" placeholder="Password">  
 </div>  
 <div class="form-group">  
 <input class="input" type="text" name="address" placeholder="City">  
 </div>  
 <div class="input-checkbox">  
 <input type="checkbox" id="terms">  
 <label for="terms">  
 <span></span>  
 I've read and accept the <a href="#">terms & conditions</a>  
 </label>  
 </div>  
 <input type="submit" class="primary-btn order-submit" value="Sign Up">  
 </form>  
 </div>  
  
 <!-- Order Details -->  
 <form class="col-md-5 order-details">  
 <div class="section-title text-center">  
 <h3 class="title">Login</h3>  
 </div>  
 <div class="order-summary">  
 <div class="form-group">  
 <input class="input" type="email" name="email" placeholder="Email">  
 </div>  
 <div class="form-group">  
 <input class="input" type="password" name="password" placeholder="Password">  
 </div>  
 </div>  
 <input type="submit" class="primary-btn order-submit" value="Sign In">  
 </form>  
 <!-- /Order Details -->  
 </div>  
 </div>  
 </div>  
 </div>  
</div>  
<script>  
 let ***signupForm*** = ***document***.querySelector("form.billing-details");  
 ***signupForm***.addEventListener("submit", e => {  
 e.preventDefault()  
 fetch("newcustomer.jsp?name=" + ***signupForm***.name.value + "&email=" + ***signupForm***.email.value + "&password=" + ***signupForm***.password.value + "&address=" + ***signupForm***.address.value)  
 .then(response => {  
 return response.text();  
 }).then(data => {  
 alert(data.trim());  
 signupForm.reset();  
 window.location.replace("catalog.jsp")  
 }).catch(err => {  
 alert(err)  
 signupForm.reset();  
 })  
 })  
 let loginForm = document.querySelector("form.order-details");  
 loginForm.addEventListener("submit", e => {  
 e.preventDefault()  
 fetch("login.jsp?email=" + loginForm.email.value + "&password=" + loginForm.password.value)  
 .then(response => {  
 return response.text();  
 }).then(data => {  
 alert(data.trim());  
 loginForm.reset();  
 window.location.replace("catalog.jsp")  
 }).catch(err => {  
 alert(err)  
 loginForm.reset();  
 })  
 })  
</script>  
<**jsp:include** page="footer.jsp"/>  
<%  
 } else {  
 String redirectURL = "catalog.jsp";  
 response.sendRedirect(redirectURL);  
 }  
%>

Login.jsp

<%@ **page** import="java.sql.Connection" %>  
<%@ **page** import="java.sql.PreparedStatement" %>  
<%@ **page** import="java.sql.ResultSet" %>  
<%@ **page** import="java.sql.DriverManager" %>  
<%@ **page** import="java.security.MessageDigest" %>  
<%@ **page** import="java.math.BigInteger" %>  
<%@ **page** import="java.nio.charset.StandardCharsets" %>  
<%  
 if (request.getParameter("email") != null && request.getParameter("password") != null) {  
 String loginUsername = request.getParameter("email");  
 String loginPassword = request.getParameter("password");  
 try {  
 MessageDigest md = MessageDigest.getInstance("SHA-256");  
 BigInteger number = new BigInteger(1, md.digest(loginPassword.getBytes(StandardCharsets.UTF\_8)));  
 StringBuilder hexString = new StringBuilder(number.toString(16));  
 while (hexString.length() < 32) {  
 hexString.insert(0, '0');  
 }  
 loginPassword = hexString.toString();  
 final String url = "jdbc:mysql://localhost:3306/library";  
 final String username = "root";  
 final String password = "";  
 Class.forName("com.mysql.cj.jdbc.Driver");  
 Connection con = DriverManager.getConnection(url, username, password);  
 PreparedStatement ps = con.prepareStatement("select customer\_id from customers where email = ? and password = ?");  
 ps.setString(1, loginUsername);  
 ps.setString(2, loginPassword);  
 ResultSet rs = ps.executeQuery();  
 if (rs.next()) {  
%><%="Login Successful"%><%  
 String customer\_id = rs.getString(1);  
 session.setAttribute("customer\_id", customer\_id);  
} else {  
%><%="Invalid Username or Password"%><%  
 }  
 con.close();  
 } catch (Exception e) {  
 e.printStackTrace();  
 }  
} else {  
%><%="outside Invalid Username or Password"%><%  
 }  
%>

Newcustomer.jsp

<%@ **page** import="java.sql.Connection" %>  
<%@ **page** import="java.sql.DriverManager" %>  
<%@ **page** import="java.sql.PreparedStatement" %>  
<%@ **page** import="java.sql.ResultSet" %>  
<%@ **page** import="java.security.MessageDigest" %>  
<%@ **page** import="java.math.BigInteger" %>  
<%@ **page** import="java.nio.charset.StandardCharsets" %>  
<%  
 if (request.getParameter("name") != null  
 && request.getParameter("email") != null  
 && request.getParameter("password") != null  
 && request.getParameter("address") != null) {  
 String name = request.getParameter("name");  
 String email = request.getParameter("email");  
 String pwd = request.getParameter("password");  
 String address = request.getParameter("address");  
 try {  
 MessageDigest md = MessageDigest.*getInstance*("SHA-256");  
 BigInteger number = new BigInteger(1, md.digest(pwd.getBytes(StandardCharsets.*UTF\_8*)));  
 StringBuilder hexString = new StringBuilder(number.toString(16));  
 while (hexString.length() < 32) {  
 hexString.insert(0, '0');  
 }  
 pwd = hexString.toString();  
 final String url = "jdbc:mysql://localhost:3306/library";  
 final String username = "root";  
 final String password = "";  
 Class.*forName*("com.mysql.cj.jdbc.Driver");  
 Connection con = DriverManager.*getConnection*(url, username, password);  
 PreparedStatement ps = con.prepareStatement(  
 "insert into customers(name, email, password, address) values(?,?,?,?)"  
 );  
 ps.setString(1, name);  
 ps.setString(2, email);  
 ps.setString(3, pwd);  
 ps.setString(4, address);  
 int result = ps.executeUpdate();  
 if (result == 1) {  
 ps = con.prepareStatement(  
 "select customer\_id from customers where email = ?"  
 );  
 ps.setString(1, email);  
 ResultSet rs = ps.executeQuery();  
 if (rs.next()) {  
 session.setAttribute("customer\_id", rs.getString(1));  
%><%="Account Created Successfully"%><%  
 }  
} else {  
%><%="Error Occured while creating new Account"%><%  
 }  
 con.close();  
 } catch (Exception e) {  
 e.printStackTrace();  
 }  
 }  
%>

Product.jsp

<%@ **page** import="java.sql.Connection" %>  
<%@ **page** import="java.sql.DriverManager" %>  
<%@ **page** import="java.sql.PreparedStatement" %>  
<%@ **page** import="java.sql.ResultSet" %>  
<%  
 if (request.getParameter("id") != null) {  
 String book\_id = request.getParameter("id");  
 try {  
 final String url = "jdbc:mysql://localhost:3306/library";  
 final String username = "root";  
 final String password = "";  
 Class.forName("com.mysql.cj.jdbc.Driver");  
 Connection con = DriverManager.getConnection(url, username, password);  
 PreparedStatement ps = con.prepareStatement("select books.name, books.description, books.url, books.price, authors.first\_name, authors.last\_name from books inner join authors on books.author\_id = authors.author\_id where book\_id = ?");  
 ps.setInt(1, Integer.parseInt(book\_id));  
 ResultSet rs = ps.executeQuery();  
 if (rs.next()) {  
 String name = rs.getString(1);  
 String description = rs.getString(2);  
 String image = rs.getString(3);  
 String price = "Rs. " + rs.getString(4);  
 String author = rs.getString(5) + " " + rs.getString(6);  
%>  
<**jsp:include** page="header.jsp"/>  
<div class="section">  
 <div class="container">  
 <div class="row">  
 <!-- Product main img -->  
 <div class="col-md-5 col-md-push-2">  
 <div id="product-main-img">  
 <div class="product-preview">  
 <img src="./img/<%=image%>" alt="<%=name%>">  
 </div>  
 </div>  
 </div>  
 <!-- /Product main img -->  
  
 <!-- Product thumb imgs -->  
 <div class="col-md-2 col-md-pull-5">  
 <div id="product-imgs">  
 <div class="product-preview">  
 <img src="./img/<%=image%>" alt="<%=name%>">  
 </div>  
 </div>  
 </div>  
 <!-- /Product thumb imgs -->  
  
 <!-- Product details -->  
 <div class="col-md-5">  
 <div class="product-details">  
 <h2 class="product-name"><%=name%></h2>  
 <div>  
 <h3 class="product-price"><%=price%></h3>  
 <span class="product-available">In Stock</span>  
 </div>  
 <p><%=description%></p>  
 <div class="add-to-cart">  
 <button onclick='javascript:window.location.replace("addtocart.jsp?id="+<%=book\_id%>)' class="add-to-cart-btn"><i class="fa fa-shopping-cart"></i> add to cart</button>  
 </div>  
 <ul class="product-links">  
 <li>Author : <%=author%></li>  
 </ul>  
 </div>  
 </div>  
 <!-- Product details -->  
 </div>  
 </div>  
</div>  
<**jsp:include** page="footer.jsp"/>  
<%  
 con.close();  
 }  
 } catch (Exception e) {  
 e.printStackTrace();  
 }  
%>  
<%  
 } else {  
 String redirectURL = "catalog.jsp";  
 response.sendRedirect(redirectURL);  
 }  
%>

Signout.jsp

<%  
 session.removeAttribute("customer\_id");  
 String redirectURL = "index.jsp";  
 response.sendRedirect(redirectURL);  
%>