8. Write a JSP and Servlet Program to do the following to buy a T-Shirt online:

    a. **A set of checkboxes to select your T-Shirt accessories such as 'belt', 'cap', 'hair-band' etc.**

    b. **A text area / text field to enter your T-Shirt tag-line**

    c. **A Radio-button that allows the user to choose between T-Shirt with chest pocket and without.**

    d. **A Combo Box to choose your T-Shirt color**

    e. **Appropriate labels for these GUI Components**

    f. **A Button called "Click Me" which when pressed will**

    g. **Insert the details entered into a table called 'TShirts'.**

    h. **An OrderNo is generated by adding '1' to the existing 'OrderNo'**

    i. **If 'TShirts' table is empty the initial value of 'OrderNo' is 100.**

    j. **This 'OrderNo' is also inserted into the 'TShirts' table**

    k. **Display all the records of the 'TShirts' table in tabular form**

PS: Frontend display should be in JSP and the business logic should be written in Servlet Class.

```
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

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

public tcon() {
   super();
}

protected void service(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
            response.setContentType("text/html");
            PrintWriter out=response.getWriter();
            String[] Accessories={};
            Accessories=request.getParameterValues("access");
            String tshirtAccessories="";
```

```java
String tshirtTagLine=request.getParameter("tagline");
String tshirtOption=request.getParameter("pocket");
String tcolor=request.getParameter("Tshirtcolor");
out.println("<html>");
out.println("<head><title>T-shirt</title></head>");
out.println("<body>");
try {
    Statement stmt;
    Class.forName("com.mysql.jdbc.Driver");
    Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/tshrit", "root", "");
    if (conn != null) {
        stmt= conn.createStatement();
        String qu;
        if(tshirtAccessories!=null && tshirtTagLine!=null && tshirtOption!=null && tcolor!=null){
            for(String option:Accessories){
                tshirtAccessories=tshirtAccessories+option;
            }
            qu="insert into Tshirts values("+null+",'"+tshirtTagLine+"','"+tshirtAccessories+"','"+tcolor+"','"+tshirtOption+"');";
            stmt.executeUpdate(qu);
        }
        qu="select * from Tshirts;";
        ResultSet rs =stmt.executeQuery(qu);
        out.println("<table border=2>");
        out.println("<tr>");
        out.print("<td>OrderNo</td>");
        out.print("<td>T-shirt Accessories</td>");
        out.print("<td>T-shirt tag-line</td>");
        out.print("<td>T-shirt type</td>");
        out.print("<td>T-shirt color</td>");
        out.println("</tr>");
        if(!rs.isBeforeFirst()){
            out.print("<tr>");
            out.print("<td>100</td>");
            out.print("<td>NULL</td>");
            out.print("<td>NULL</td>");
            out.print("<td>NULL</td>");
            out.print("<td>NULL</td>");
            out.print("<td>NULL</td>");
            out.println("</tr>");
        }
        while(rs.next()){
            out.println("<tr>");
```

```java
                    out.print("<td>"+(Integer.parseInt(rs.getString("OrderNo"))+100)+"</td>");
                    out.print("<td>"+rs.getString("tshritAccessories")+"</td>");
                    out.print("<td>"+rs.getString("tshritTagLine")+"</td>");
                    out.print("<td>"+rs.getString("tcolor")+"</td>");
                    out.print("<td>"+rs.getString("tshritOption")+"</td>");
                    out.println("</tr>");
                }
                out.println("</table>");
                out.println("<a href=\"tshrit.jsp\">click here</a>");
                out.println("</body></html>");
        }

            }
            catch (Exception e){
                    e.printStackTrace();
            }
        }
    }
```

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

tshrit.jsp

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

```html
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="tcon" method="post">
T-Shirt Accessories<input type="checkbox" name="access"  value="Belt"/>Belt
<input type="checkbox" name="access" value="Cap"/>Cap
<input type="checkbox" name="access" value="Hair-Band"/>Hair-Band<br>
Tag-Line<input type="text" name="tagline" size="50"/><br>
T-Shirt Feature:<input type="radio" name="pocket" value="ChestPocket"/>Chest Pocket
<input type="radio" name="pocket" value="NoChestPocket"/>No Chest Pocket<br>
T-Shirt Color:<select name="Tshirtcolor">
<option>Blue</option>
<option>Red</option>
<option>Green</option>
</select><br>
<input type="submit" value="Place Orders"/>
</form>
</body>
</html>
```

9. Create a Telephone Directory Application using Servlet that searches the database based on phone number or name. Also show database table creation with inserting 2-3 values to the table.

        a. Database Name: OnlineDirectory
        b. Table Design:
                i. Table Name: Telephone_Directory
                ii. Attributes: Phone_Number, Name, Address, Company, Pin_Code.

JDBClogin.java
~~~~~~~~~~~~~~~~~~~~~~~~

```java
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.Statement;
import java.sql.DriverManager;
import java.sql.SQLException;

import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@SuppressWarnings("serial")
@WebServlet(urlPatterns={"/javaConnection"})
public class JDBClogin extends HttpServlet {

    static Connection getConnection() throws Exception {

        String driver = "com.mysql.jdbc.Driver";
        String url = "jdbc:mysql://localhost/onlinedirectory";
        String username = "root";
        String password = "";
        Class.forName(driver);
        Connection conn = DriverManager.getConnection(url, username, password);
        return conn;
    }

    public void doGet(HttpServletRequest request, HttpServletResponse response) throws IOException {
        PrintWriter out = response.getWriter();
        //out.print("Working");

         boolean flag = false;
        Connection conn = null;
        Statement stmt = null;
        java.sql.ResultSet rs = null;
    try {
            conn = getConnection();
            stmt = conn.createStatement();
            out.print("Working");
                long inp;
```

```java
        try
        {
         inp =Long.parseLong(request.getParameter("phone"));
        out.println(""+inp);
         rs = stmt.executeQuery("SELECT * FROM tele_dir where contact="+inp);
        }
        catch(Exception e)
        {
           String name=request.getParameter("phone");
           // out.println(""+name);
           rs = stmt.executeQuery("SELECT * FROM tele_dir where name='"+name+"'");

        }
        if(rs.next()) {
           String name = rs.getString(1);
           long contact = rs.getLong(2);
           String address = rs.getString(3);
           String company = rs.getString(4);
           int pin =rs.getInt(5);
           out.println("name"+name);
           out.println("contact:"+contact);
           out.println("address:"+address);
           out.println("company:"+company);
           out.println("pin:"+pin);


           }
        else
        {
           out.println("no contact found");
        }


    } catch (ClassNotFoundException e) {
       System.out.println("Error: failed to load MySQL driver.");
       e.printStackTrace();
    } catch (SQLException e) {
       System.out.println("Error: failed to create a connection object.");
       e.printStackTrace();
    } catch (Exception e) {
       System.out.println("Error: unknown");
       e.printStackTrace();
    }

finally {
   try {
      stmt.close();
      conn.close();
   } catch (Exception e) {
      e.printStackTrace();
```

```
        }
    }


    }

}
```
~~~~~~~~~~~~~~~~~~~~~~~~
insert1.java
~~~~~~~~~~~~~~~~~~~~~~~~
```java
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.Statement;
import java.sql.DriverManager;
import java.sql.SQLException;

import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@SuppressWarnings("serial")
@WebServlet(urlPatterns = { "/ins" })
public class insert1 extends HttpServlet {

    static Connection getConn() throws Exception {
        String driver = "com.mysql.jdbc.Driver";
        String url = "jdbc:mysql://localhost/onlinedirectory";
        String username = "root";
        String password = "";
        Class.forName(driver);
        Connection conn = DriverManager.getConnection(url, username, password);
        return conn;
    }

    Connection conn1 = null;

    public void doGet(HttpServletRequest request, HttpServletResponse response)
            throws IOException {
        PrintWriter out = response.getWriter();
        // out.print("Working");

        boolean flag = false;
        Connection conn = null;
        Statement stmt = null;
        java.sql.ResultSet rs = null;

        try {
            // conn = getConn();
```

```java
        String driver = "com.mysql.jdbc.Driver";
        String url = "jdbc:mysql://localhost:3306/onlinedirectory";
        String username = "root";
        String password = "";
        Class.forName(driver);
        conn1 = DriverManager.getConnection(url, username,
            password);
        if (conn1 != null)
          System.out.println("Successful");
        stmt = conn1.createStatement();

        out.print("Working");

        String name = request.getParameter("nam");
        long contact = Long.parseLong(request.getParameter("cnt"));
        String address = request.getParameter("address");
        String company = request.getParameter("company");
        int pin = Integer.parseInt(request.getParameter("pin"));

        out.println("name" + name);
        out.println("contact:" + contact);
        out.println("address:" + address);
        out.println("company:" + company);
        out.println("pin:" + pin);

        stmt.executeUpdate("insert into tele_dir values('" + name + "'," + contact + ",'" + address + "','" +
company + "'," + pin + ");");
        out.println("updated the records");

      } catch (ClassNotFoundException e) {
        System.out.println("Error: failed to load MySQL driver.");
        e.printStackTrace();
      } catch (SQLException e) {
        System.out.println("Error: failed to create a connection object.");
        e.printStackTrace();
      } catch (Exception e) {
        System.out.println("Error: unknown");
        e.printStackTrace();
      } finally {
        try {
          stmt.close();
          conn1.close();
        } catch (Exception e) {
          e.printStackTrace();
        }
      }

    }

}
```

```
~~~~~~~~~~~~~~~~~~~~~~~~~
Index.jsp
~~~~~~~~~~~~~~~~~~~~~~~~~
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form  action="javaConnection" method="get"/>
Enter name or phone:<input type="text" name="phone" /><br/>
<input type="submit" />
</form>
<a href="insert.html;">insert into directory</a>
</body>
</html>
~~~~~~~~~~~~~~~~~~~~~~~~~
insert.html
~~~~~~~~~~~~~~~~~~~~~~~~~
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="ins" method="get" >
name:<input type="text" name="nam" /><br/>
contact:<input type="text" name="cnt" /><br/>
address:<input type="text" name="address" /><br/>
company:<input type="text" name="company" /><br/>
pincode:<input type="text" name="pin" />
<input type="submit" />
</form>
</body>
</html>
```

10. Write a Java Program that creates two threads object of Thread class. Where one thread asks the user to enter a number not less than four digits. Split the digits of the number and display in words the value of the number. Ex: 1 – One. Second thread finding the number of vowels in a word. Ex: JAVA – Vowel - A, Count – 2.

GetStringThread.java

```
~~~~~~~~~~~~~~~~~~~~~~~~~
import java.util.Scanner;

public class GetStringThread extends Thread {

public String string;
public static String vowels = "aeiou";
```

```java
public void run() {
Scanner s = new Scanner(System.in);
System.out.println("Enter a string: ");
string = s.next();
int x = 0;
for(char c : string.toCharArray())
for(char ch : vowels.toCharArray())
if(c==ch) x++;
System.out.print(x+" vowels present\n");
}
}
```
~~~~~~~~~~~~~~~~~~~~~~~~~
GetNumberThread.java
~~~~~~~~~~~~~~~~~~~~~~~~~
```java
import java.util.Scanner;

public class GetNumberThread extends Thread {

public String number;
private static String[] digit = new String[]
{"zero","one","two","three","four","five","six","seven","eight","nine"};
public void run() {
Scanner s = new Scanner(System.in);
System.out.println("Enter number with more than 4 digits: ");
number = s.next();
for(char c : number.toCharArray()) {
if(c<48||c>57) {
System.out.println("Invalid inputs");
break;
}
System.out.print(digit[((int)c-48)]+" ");
}
System.out.print("\n");
}
}
```
~~~~~~~~~~~~~~~~~~~~~~~~~
InputThreads.java
~~~~~~~~~~~~~~~~~~~~~~~~~
```java
public class InputThreads {

        public static void main(String[] args) throws InterruptedException {
        GetStringThread getStringThread;
        GetNumberThread getNumberThread;
        getNumberThread = new GetNumberThread();
        getStringThread = new GetStringThread();
        //getNumberThread.start();
        getStringThread.start();
        Thread.sleep(100);
        //getStringThread.start();
        getNumberThread.start();
```

```
            }
}
```

11. Write a program using JSP that helps a student to calculate the income tax on various annual incomes that he will be earning when he gets a job.

Login.html **will call** *dataCapture.jsp* **that should do the following:**
- **Use Java Collections to make a list of valid users and facilitate user login functionality.**
- **Give a personalized Welcome message and display today's date.**
- **Have a Text Entry with label 'Name' to enter the name of the user.**
- **Give a List of Organizations to choose 'Place of Work'**
- **Provide a Male or Female option to choose the 'Gender'**
- **Have a Text Entry with label 'Annual Income'**
- **Give a Submit button reading 'Calculate Tax'**

CalculateTax.jsp **must calculate the interest based on the following business rules:**
- **Salary below 1,00,000 shall no have income-tax.**
- **Calculate 15% of tax on 1,00,001 – 5,00,000.**
- **Calculate 20% on 5,00,001 onwards.**

The final income tax along with the details of how it is calculated must be put in a session object and displayed to the user in *dataCapture.jsp***. All the income taxes calculated so far by the user, must be taken out of the session object and displayed, each time in** *dataCapture.jsp* **which has a link called '***Logout***' that destroys the session.**

Login.jsp:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Login Page</title>
</head>
<body>
    <form action="dataCapture.jsp" method="post">
            User Name: <input type="text" size="15" name="username"> <br>
            Password: <input type="password" size="15" name="password"> <br>
            <input type="submit" value="Login">
    </form>
    <%
            String reason = request.getParameter("FailReason");
```

```jsp
			if (reason != null)
				out.println(reason);
	%>
</body>
</html>
```

dataCapture.jsp:
```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
	pageEncoding="ISO-8859-1" import="java.util.* , java.text.*"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>
<body>

	<%!HashMap hm;
	String uname;
	String pwd;
	Map.Entry entry;
		boolean login = false;
		hm = new HashMap();
		uname = request.getParameter("username");
		pwd = request.getParameter("password");

		hm.put("Archie", "Riverdale");
		hm.put("Haddock", "Marlinspike");
		hm.put("Hermione", "Hogwarts");

		Set s = hm.entrySet();
		Iterator it = s.iterator();

		while (it.hasNext())
		{
			entry = (Map.Entry) it.next();
			if (uname.equals(entry.getKey())
						&& pwd.equals(entry.getValue()))
			{
				login = true;
			}
		}//end while

		if (login == true)
```

```jsp
        {
                out.println("<B><FONT COLOR = Blue>");
                out.println("Welcome </FONT></B>");
                out.println(uname);
                DateFormat dateFormat = new SimpleDateFormat(
                                "yyyy/MM/dd HH:mm:ss");
                Date date = new Date();
                out.println("<BR><FONT COLOR = Green>");
                out.println("Today is </FONT>" + dateFormat.format(date));
        %>

        <form action="CalculateInterest.jsp" method="post">
                <FONT COLOR="Magenta"> First Name:</FONT> <input type="text"
size="15"
                        name="fname"> <br> <FONT COLOR="Brown">Last Name:
                </FONT> <input type="text" size="15" name="lname"> <br> <FONT
                        COLOR="Purple">Select your Place of Work:</FONT> <br> <select
                        name="profession" size="3">
                        <option>IT Company</option>
                        <option>Private Bank</option>
                        <option>Insurance Company</option>
                </select> <br> <input type="radio" name="gender" value="Male">
                Male<br> <input type="radio" name="gender" value="Female"
checked>Female<br>
                <br> <FONT COLOR="Red"> Annual Income(in Rupees):</FONT> <input
                        type="text" size="15" name="income"> <br> <br> <input
                        type="submit" value="Calculate Tax">
        </form>
        <%
                }
                else
                {
        %>
        <jsp:forward page="Login.jsp">
                <jsp:param name="FailReason" value="Wrong Username or Password" />
        </jsp:forward>
        <%
                }
        %>

</body>
</html>
```

CalculateInterest.jsp:

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
```

```jsp
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Calculate Interest JSP</title>
</head>
<body>
    <%
            String fname = request.getParameter("fname");
            String lname = request.getParameter("lname");
            String gender = request.getParameter("gender");
            String profession = request.getParameter("profession");
            String prefix = " ";

            if (gender.equals("Male"))
            {
                    prefix = "Mr.";
            } else if (gender.equals("Female"))
            {
                    prefix = "Ms.";
            }
    %>
    <FONT COLOR="Blue">Hello
<%=prefix%> <%=fname%> <%=lname%>
              who works in a <%=profession%></FONT>

    <%
            String sincome = request.getParameter("income");
            float income = Float.parseFloat(sincome);
            out.println("<BR>Your Annual Income is " + income);

            float tax;
            float diff;

            if (income <= 100000)
            {
                    out.println("<BR>You are below the Tax Bracket!!");
            }
            else if (income > 100000 && income <= 200000)
            {
                    out.println("Your Tax Bracket is between Rs.1,00000 to Rs.2,00000");
                    out.println("<BR>Tax to be paid is 10% of income above 1Lakh");
                    diff = income - 100000;
```

```
                    tax = (float) 0.1 * diff;
                    out.println("<BR>Tax to be paid is " + tax);
            }
            else if (income > 200000 && income <= 300000)
            {
            out.println("<BR>Your Tax Bracket is between between Rs.1,00000 to
    Rs.3,00000");
        out.println("<BR>Tax to be paid is 10% of income upto 1Lakh and 20% of rest of
    income");
                    diff = income - 200000;
                    tax = (float) 0.2 * diff + (float) 0.1 * 100000;
                    out.println("<BR>Tax to be paid is " + tax);
            }
            else if (income > 100000 && income <= 400000)
            {
                    out.println("<BR>Your Tax Bracket is between Rs.1,00000 to
    Rs.4,00000");
                    out.println("<BR>Tax to be paid is 10% of income upto 1Lakh 20% of
    income upto 3Lakh and 30% of rest of income");
                    diff = income - 300000;
                    tax = (float) 0.3 * diff + (float) 0.2 * 200000 + (float) 0.1
                            * 100000;
                    out.println("<BR>Tax to be paid is " + tax);
            }
            else if (income > 400000)
            {
                    out.println("<BR>You fall in the tax bracket greater than Rs.4,00000");
                    diff = income - 400000;
                    tax = diff + (float) 0.3 * 300000 + (float) 0.2 * 200000
                                    + (float) 0.1 * 100000;
                    out.println("<BR>Tax to be paid is 10% of income upto 1Lakh 20% of
    income upto 3Lakh, 30% of income upto 4 lakh and 100% of rest of income");
                    out.println("<BR>Tax to be paid is " + tax);
            }//end if
        %>
    </body>
    </html>
```

12. a. Create two tables Flight(Flight_Number, Airline_Name, Weekdays) and SeatReservation(Flight_Number, Date, Seat_Number, Customer_Name, Customer_Phone) in MySQL database.
b. Create JSP page *ReserveOnline.jsp* to reserve an airline seat and insert the values into the table SeatReservation. OnClick of Submit in *ViewDetails.jsp* display information about

reservation. Validate the Flight_Number from already existing Flight database and generate random number for Seat_Number within the range 1-500.

c. Also create a link to display information of all the flights running on a particular day.

flightdete.jsp
~~~~~~~~~~~~~~~~~~~~

```
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Insert title here</title>
</head>
<body>
        <form action="flidet.jsp" method="post">
                <p>Enter the day for flight details</p>
                <input type="text" name="fdate" size="10" /> <input type="submit"
                        value="Click" />
        </form>
</body>
</html>
```

~~~~~~~~~~~~~~~~~~~~
flidet.jsp
~~~~~~~~~~~~~~~~~~~~

```
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Insert title here</title>
</head>
<body>
        <%
                String fldate = request.getParameter("fdate");
                String url = "jdbc:mysql://localhost/flight";
                String user = "root";
                String password = "";
                Connection connection = null;
                Statement stmt;
                try
                {
                        Class.forName("com.mysql.jdbc.Driver").newInstance();
                        out.println("hi, Flight details=");
                        connection = DriverManager.getConnection(url, user, password);
                        if (connection != null)
                        {
                                stmt = connection.createStatement();
```

```java
                              String query = " select * from Flight where Weekdays='"
                                                + fldate + "'";
                              ResultSet re = stmt.executeQuery(query);
                              while (re.next())
                              {
                                      out.println(re.getString("Flight_Number") + "\n"
                                                      + re.getString("Airline_Name") + "\n"
                                                      + re.getString("Weekdays") + "\n");
                              }
                      }
                      else
                              out.println("Connection refused");
              }
              catch (Exception e)
              {
                      out.println(e.getMessage());
              }
      %>
</body>
</html>
```

~~~~~~~~~~~~~~~~~~~~
ReserveOnline.jsp
~~~~~~~~~~~~~~~~~~~~

```html
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
      <%
              out.println("<B><FONT COLOR = Blue>");
              out.println("Welcome </FONT></B>");
              DateFormat dateFormat = new SimpleDateFormat("yyyy/MM/dd HH:mm:ss");
              //Date datess = new Date();
              out.println("<BR><FONT COLOR = Green>");
              //out.println("Today is </FONT>"+dateFormat.format(datess));
      %>
      <form action="ViewDetails.jsp" method="post">
              <FONT COLOR="Magenta"> Flight Number:</FONT> <input type="text"
                      size="15" name="fname"> <br> <FONT COLOR="Brown">Date:
              </FONT> <input type="text" size="15" name="date"> <br> <FONT
                      COLOR="Brown">Customer Name: </FONT> <input type="text"
size="15"
```

name="custname">
 <FONT COLOR="Brown">Customer
Number: </FONT> <input type="text" size="15" name="custno">
            <input type="submit" value="Submit form">
        </form>
</body>
</html>
~~~~~~~~~~~~~~~~~~~~
ViewDetails.jsp
~~~~~~~~~~~~~~~~~~~~
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Insert title here</title>
</head>
<body>
        <%
                String fno1 = request.getParameter("fname");
                int fno = Integer.parseInt(fno1);
                String datea = request.getParameter("date");
                Random rand = new Random();
                int s = rand.nextInt(500);
                String seat = Integer.toString(s);
                String custname = request.getParameter("custname");
                String custno = request.getParameter("custno");
                int fno2 = Integer.parseInt(custno);
        %>

        <%
                String url = "jdbc:mysql://localhost/flight";
                String user = "root";
                String password = "";
                Connection connection = null;
                //boolean flag=false;
                String query2;
                boolean h = false;
                Statement stmt;
                try
                {
                        Class.forName("com.mysql.jdbc.Driver").newInstance();
                        connection = DriverManager.getConnection(url, user, password);
                        if (connection != null)
                        {
                                out.println("Connection created");

```
                        stmt = connection.createStatement();
                        query2 = "select * from Flight where Flight_Number='" + fno
                                        + "'";
                        ResultSet rs = stmt.executeQuery(query2);
                        while (rs.next())
                        {
                                h = true;
                        }
                        if (h)
                        {
                                out.println("Flight Number:" + fno + "\nDate:" + datea
                                        + "\nSeatNumber:" + seat +
"\nCustomerName:"
                                        + custname + "\nCustNumber:" + custno);
                                String query = "insert into SeatReservation values('"
                                        + fno + "','" + datea + "','" + seat + "','"
                                        + custname + "','" + custno + "');";
                                stmt.executeUpdate(query);
                                out.println("\nDetails inserted");
                        }
                        else
                        {
                                out.println("flight number doesnot exist");
                        }
                }
                else
                        out.println("Connection refused");
        }
        catch (Exception e)
        {
                out.println(e.getMessage());
        }
%>
<p>
        click for flight details <a href="flightdete.jsp">here</a>
</body>
</html>
```

Text books
  1. Herbert Schildt, 'The Complete Reference Java (J2SE 5 Edition)', TATA McGRAW-HILL Edition 2005.

2. Ivan Bayross, Sharanam Shah, Cyntiha Bayross and Vishali Shah, 'Java EE 5 for Beginners', SPD (Sharoff Publishers & Distributors Pvt. Ltd.), 2nd edition August 2008.