

IP Lab 3

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IDE used: Eclipse IDE

Server used : Tomcat (XAMPP)

Database used: MySQL (XAMPP)

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1. Guestbook Application

in1.xhtml

```
<!DOCTYPE html PUBLIC
"-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"
xmlns:h="http://xmlns.jcp.org/jsf/html"
xmlns:f="http://xmlns.jcp.org/jsf/core">
<h:head>
<title>Guestbook Form</title>
</h:head>
<h:body>
<h1>Guestbook Form</h1>
<h:form id="form">
<table>
<tr>
<td><h:outputLabel for="dob"> Date</h:outputLabel></td>
<td><h:inputText id="dob-id" value="#{user.dob}" converterMessage="Please provide
date of birth in dd/mm/yyyy format">
<f:convertDateTime pattern="dd/MM/yyyy" />
</h:inputText><br/> </td>
```

```

</tr>
<tr>
<td><h:outputLabel for="username">User Name</h:outputLabel></td>
<td><h:inputText id="name-id" value="#{user.name}"/></td>
</tr>
<tr>
<td><h:outputLabel for="email">Your Email</h:outputLabel></td>
<td><h:inputText id="email-id" value="#{user.email}"/></td>
</tr>
<tr><td><h:outputLabel for="message">Message</h:outputLabel></td>
<td><h:inputTextarea value="#{user.message}" cols="50" rows="5"/></td></tr>
</table>
<h:commandButton action="#{user.submit()}" value="submit"></h:commandButton>
</h:form>
</h:body>
</html>

```

User.java

```

package guestbook;
import javax.faces.bean.ManagedBean;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.Calendar;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import java.util.Date;
import java.util.logging.Level;
import java.util.logging.Logger;

import javax.faces.bean.RequestScoped;
@ManagedBean
@RequestScoped
public class User{
String name;
String email;
String strDate;
public String message;
public Date dob;
public Date getdob() {
    return dob;
}

public void setdob(Date dob) {
    this.dob = dob;
}
public String getName() {
    return name;
}
public void setName(String name) {
    this.name = name;
}
public String getEmail() {

```

```

return email;
}

public void setEmail(String email) {
this.email = email;
}

public String getmessage() {
return message;
}
public void setmessage(String message) {
this.message = message;
}
public boolean save(){
int result = 0;
try{

    DateFormat dateFormat = new SimpleDateFormat("dd-MMM-yyyy");
    this.strDate = dateFormat.format(dob);

Class.forName("com.mysql.jdbc.Driver");
Connection con = DriverManager.getConnection(
"jdbc:mysql://localhost:3306/test","root","");
PreparedStatement stmt = con.prepareStatement("insert into
guestbook(dob,name,email,message) values(?,?,?,?)");
stmt.setString(1, this.strDate);
stmt.setString(2, this.getName());
stmt.setString(3, this.getEmail());
stmt.setString(4, this.getmessage());
result = stmt.executeUpdate();
}catch(Exception e){
System.out.println(e);
}
if(result == 1){
return true;
}else return false;
}

public String submit(){
if(this.save()){
return "re1.xhtml";
}else return "in1.xhtml";
}

}

```

re1.xhtml

```

<!DOCTYPE html PUBLIC
"-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"
xmlns:h="http://xmlns.jcp.org/jsf/html"
xmlns:f="http://xmlns.jcp.org/jsf/core">
<h:head>
<title>User Details</title>

```

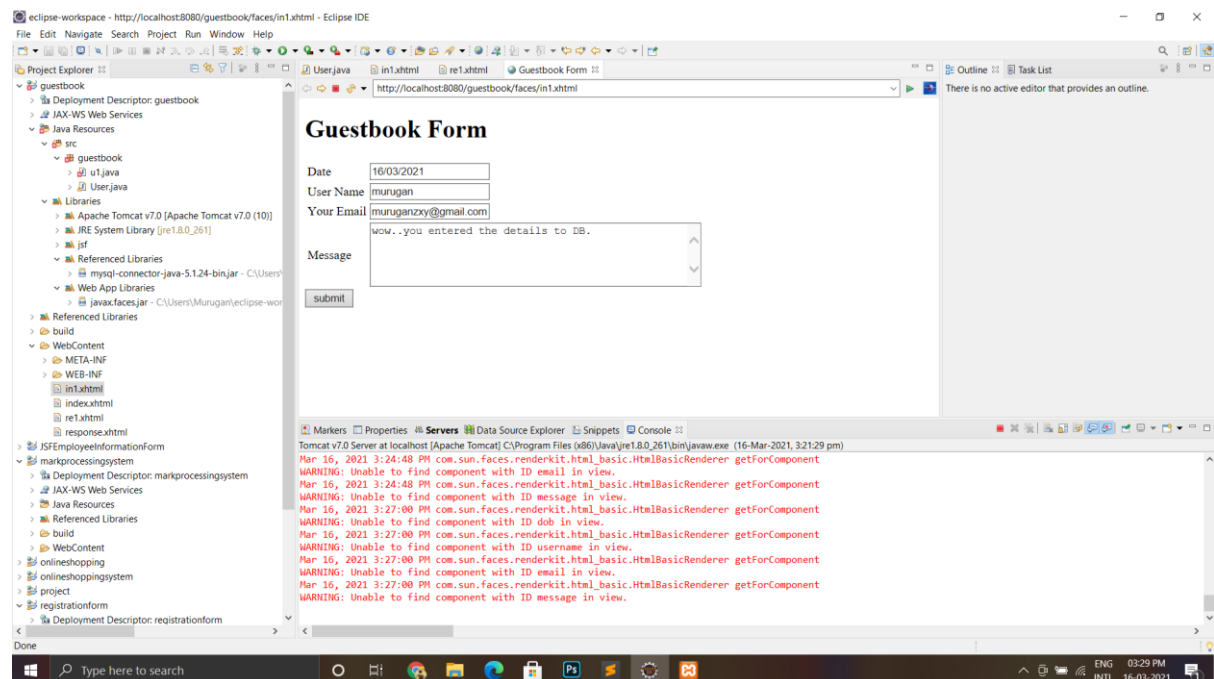
```

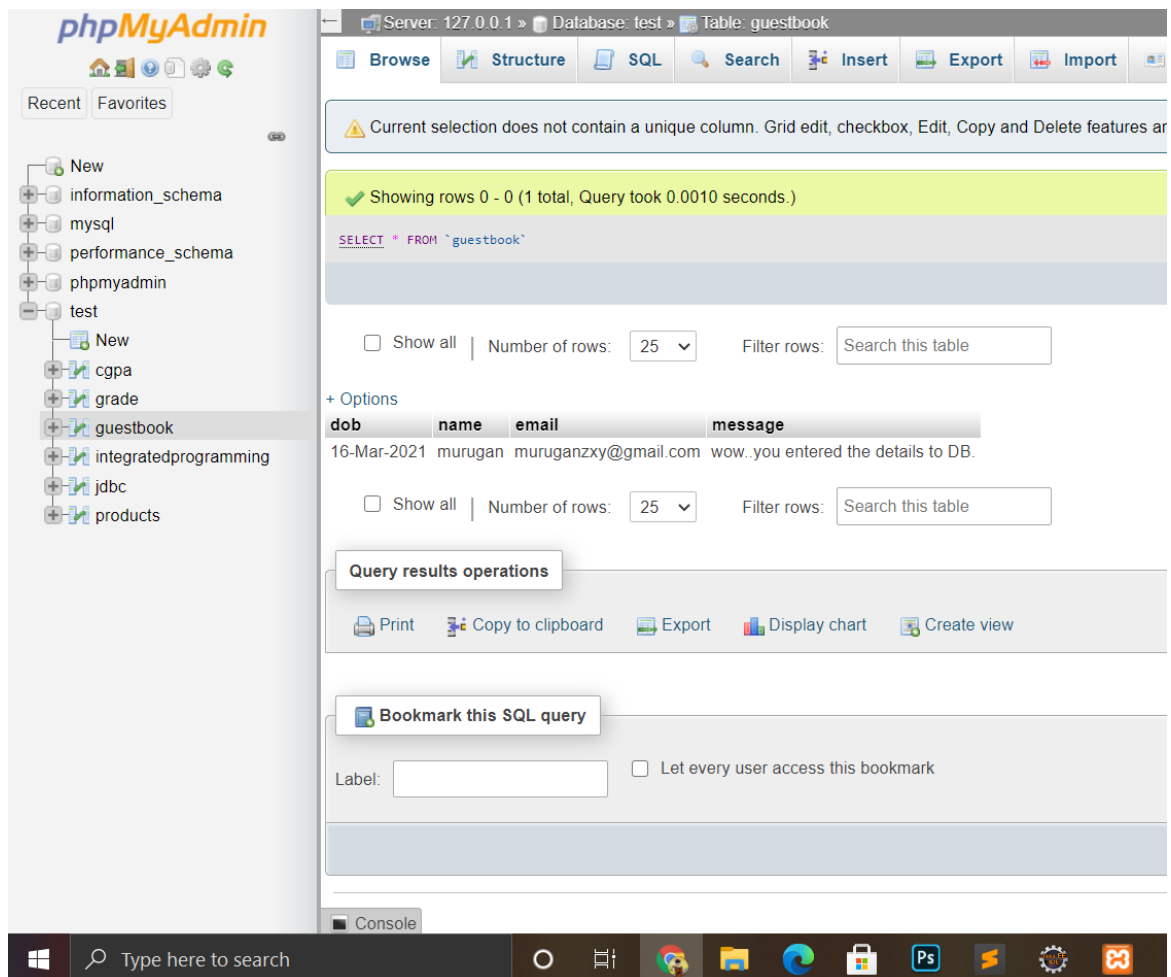
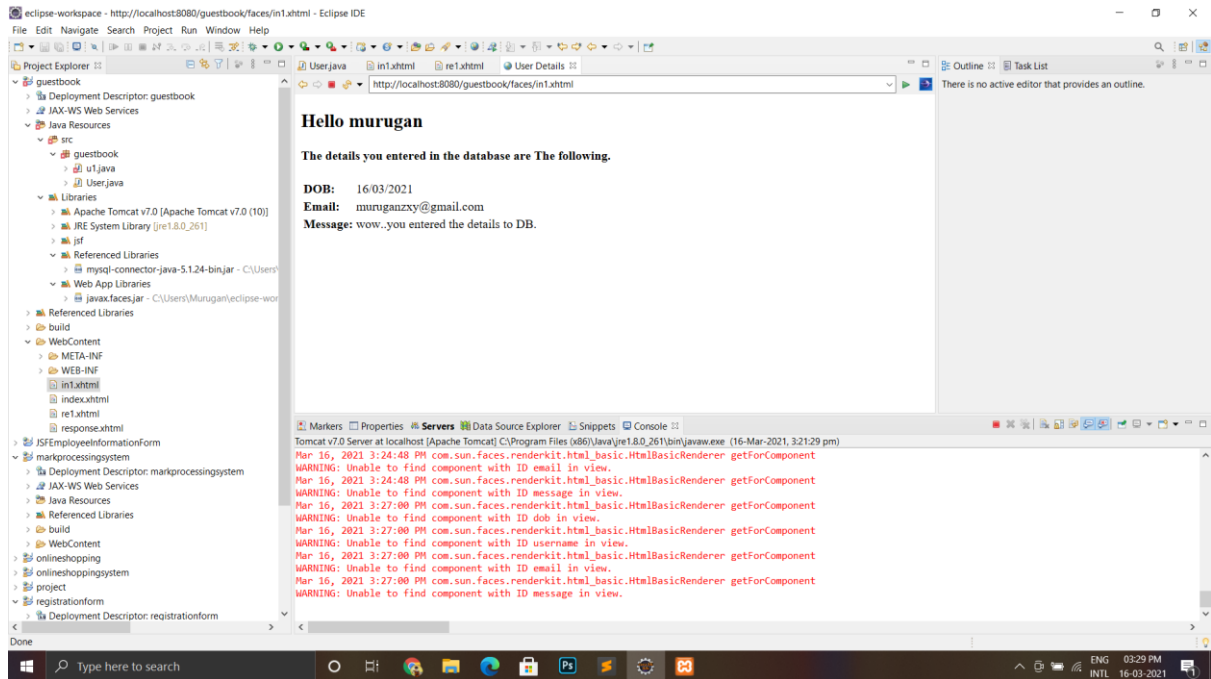
</h:head>
<h:body>
<h2><h:outputText value="Hello #{user.name}"/></h2>
<h4><h:outputText value="The details you entered in the database are The
following."/></h4>
<table>
<tr>
<td><b>DOB: </b></td>
<td><h:outputText value="#{user.dob}" >
<f:convertDateTime pattern="dd/MM/yyyy" />
</h:outputText> </td>
</tr>
<tr>
<td><b>Email: </b></td>
<td><h:outputText value="#{user.email}"/><br/></td>
</tr>
<tr>
<td><b>Message: </b></td>
<td><h:outputText value="#{user.message}"/></td>
</tr>
</table>

</h:body>
</html>

```

Output :





2. Car rental application fare calculation form (one part of the whole application)

index.html

```
<!DOCTYPE html>
<html>
<head>

    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
    <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script
>


<style>
body {font-family: Arial, Helvetica, sans-serif;
    background-color: lightblue;}
* {box-sizing: border-box;}

input[type=text],input[type=Date],input[type=tel],input[type=number],input[type=pa
ssword],input[type=Email], select, textarea {
    width: 50%;
    padding: 12px;
    border: 1px solid #ccc;
    border-radius: 4px;
    box-sizing: border-box;
    margin-top: 6px;
    margin-bottom: 16px;
    resize: vertical;
}
input[type=text],input[type=Date],input[type=number],input[type=tel],input[type=pa
ssword],input[type=Email],textarea{
    background-color: lightblue;
}
input[type=text]:hover,input[type=password]:hover,input[type=Date]:hover,input[typ
e=tel]:hover,input[type=Email]:hover,textarea:hover,input[type=number]:hover{
    background-color: white;
}
input[type=submit] {
    background-color: #4CAF50;
    color: white;
    padding: 12px 20px;
    border: none;
    border-radius: 4px;
    cursor: pointer;
}
```

```

input[type=submit]:hover {
    background-color:white;
}

.container {
    border-radius: 5px;
    background-color: black;
    padding: 20px;
}

/* Set a style for the submit button */
.bt {
    background-color: #4CAF50;
    color: white;
    padding: 16px 20px;
    border: none;
    cursor: pointer;
    width: 20%;
    opacity: 0.9;
}

.bt:hover {
    opacity: 1;
    width: 20%;
    background-color: white;
}

/* Set a style for the submit button */
.btn {
    background-color: #4CAF50;
    color: white;
    padding: 16px 20px;
    border: none;
    cursor: pointer;
    width: 50%;
    opacity: 0.9;
}

.btn:hover {
    opacity: 1;
    width: 50%;
    background-color: white;
}

</style>
</head>
<body>

<div class="container">
    <center><h1><font color="white"><b>TRAVEL DETAILS</b></font></h1></center>
</div>
<h3></h3>
<div class="container">

    <div class="row">
<div class="col-sm-6">
    <form action="http://localhost:8080/trail/TravelDetail" onsubmit="return
validate()" method="post">

```

```

        <font color="white"><label for="uname">Reservation ID : </label></font>
        <br/><input type="text" name="reserid" >
    <br/>
    <label for="fname"><font color="white">Pick-up place</font></label>
        <br/> <input type="text" id="fname" name="picup" placeholder="Enter Pick-up
    place.. " required>
    <br/>
    <label for="fname"><font color="white">Drop-off place</font></label>
        <br/> <input type="text" id="fname" name="drooff" placeholder="Enter Drop-off
    place.. " required>
    <br/>
    <label for="fname"><font color="white">Start Date</font></label>
        <br/> <input type="Date" id="start" name="sdate" placeholder="Enter Start
    Date.. " required>
    <br/>
    <label for="fname"><font color="white">End Date</font></label>
        <br/> <input type="Date" id="end" name="edate" placeholder="Enter End Date.. "
    required>
    <br/>
        <label for="lno"><font color="white">License No</font></label>
        <br/> <input type="text" id="lno" name="licensno" >
    <br/>
        <label for="cid"><font color="white">Car ID : (select car id from available
    cars)</font></label>
        <br/> <input type="number" id="cid" name="caid" placeholder="" required>
    <br/>
        <input class="btn btn-md" type="submit" value="Next">
    <h3></h3>
    </form>
    <!--form validation-->
    <script>
        function validate()
        {
            var firstname=document.getElementById("fname");

            var letters= /^[A-Za-z]+$;/;
            var numbers= /^[0-9]+$;/;
            var letternum=/^[A-Za-z0-9_@]+$;/;

            if(firstname.value.match(letters))
            {
            }
            else
            {
                alert("enter a valid first name");
                return false;
            }

            return true;
        }
    </script>

</div>

</body>
</html>

```


Traveldetail.java

```
import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.SQLException;

import java.util.logging.Level;

import java.util.logging.Logger;

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 java.text.SimpleDateFormat;

import java.util.Date;

import java.util.Calendar;

@WebServlet("/Traveldetail")

public class Traveldetail extends HttpServlet{

    public void doPost(HttpServletRequest req,HttpServletResponse rsp)throws

IOException,ServletException{

        rsp.setContentType("text/html");

        PrintWriter out = rsp.getWriter();

        SimpleDateFormat myFormat = new SimpleDateFormat("dd-MM-

yyyy");
```

```

String dateBeforeString = req.getParameter("sdate");
String dateAfterString = req.getParameter("edate");

try {
    Date dateBefore = myFormat.parse(dateBeforeString);
    Date dateAfter = myFormat.parse(dateAfterString);
    long difference = dateAfter.getTime() - dateBefore.getTime();
    float daysBetween = (difference / (1000*60*60*24));

    /* You can also convert the milliseconds to days using this
method
    * float daysBetween =
    *      TimeUnit.DAYS.convert(difference,
TimeUnit.MILLISECONDS)
    */

    out.println("Number of Days between start and end dates:
"+daysBetween+" & ");

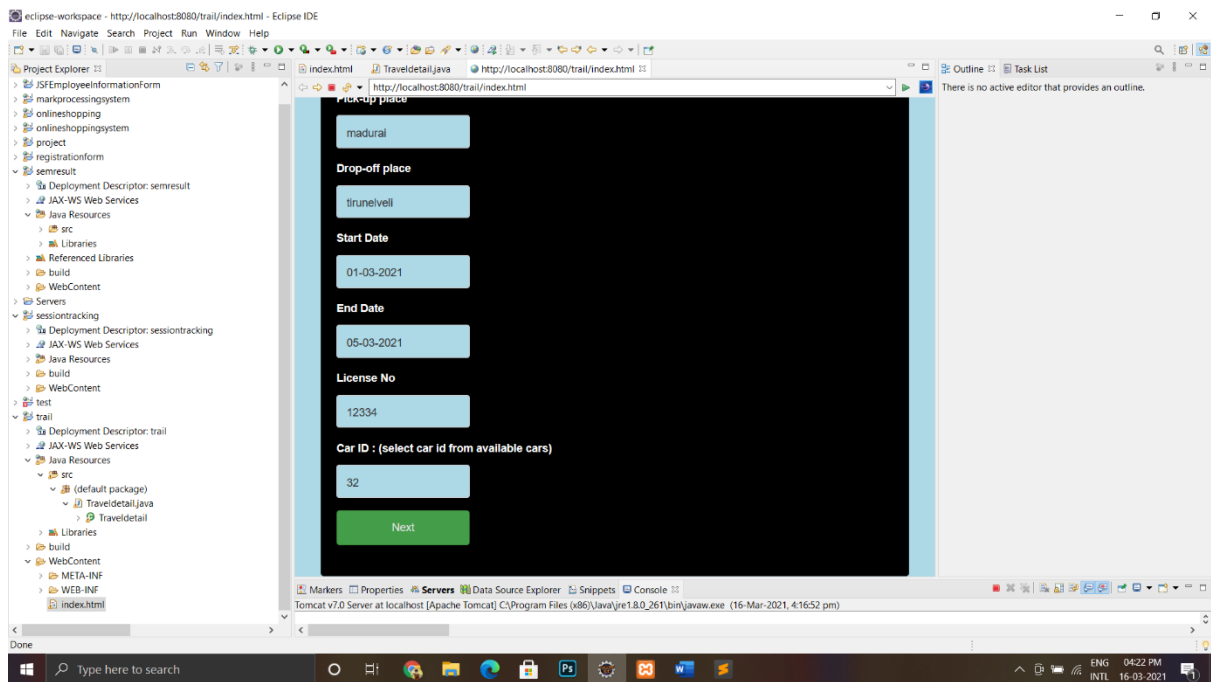
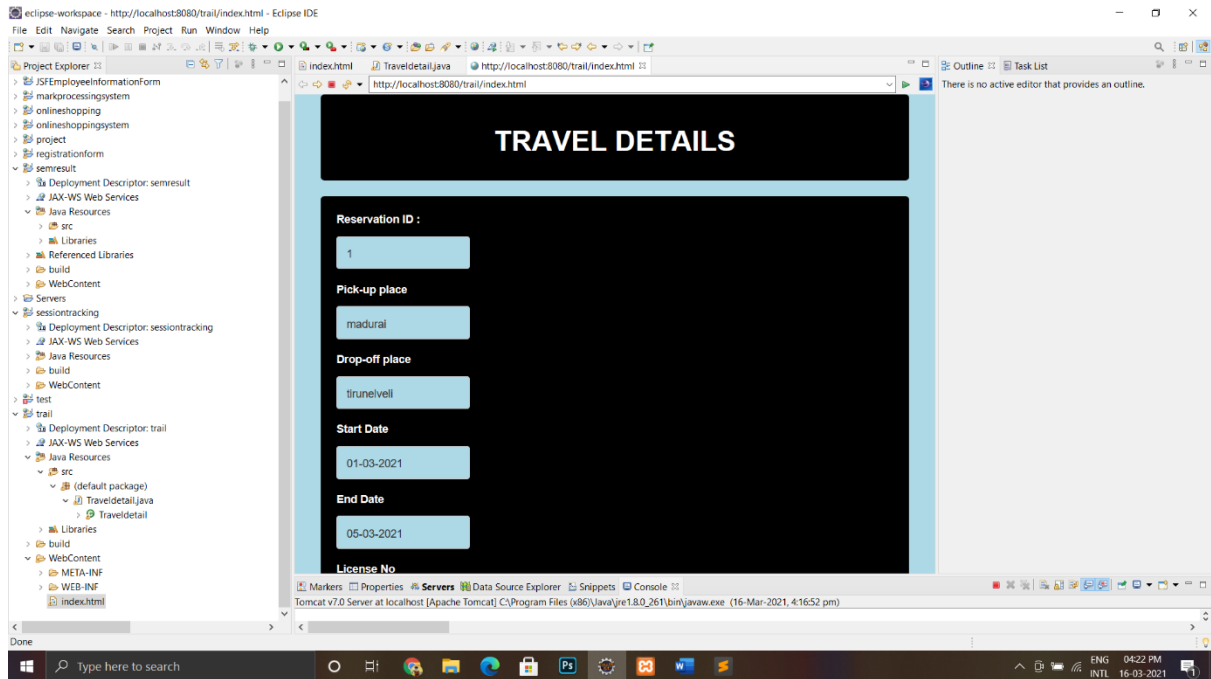
    float fare = 1200;

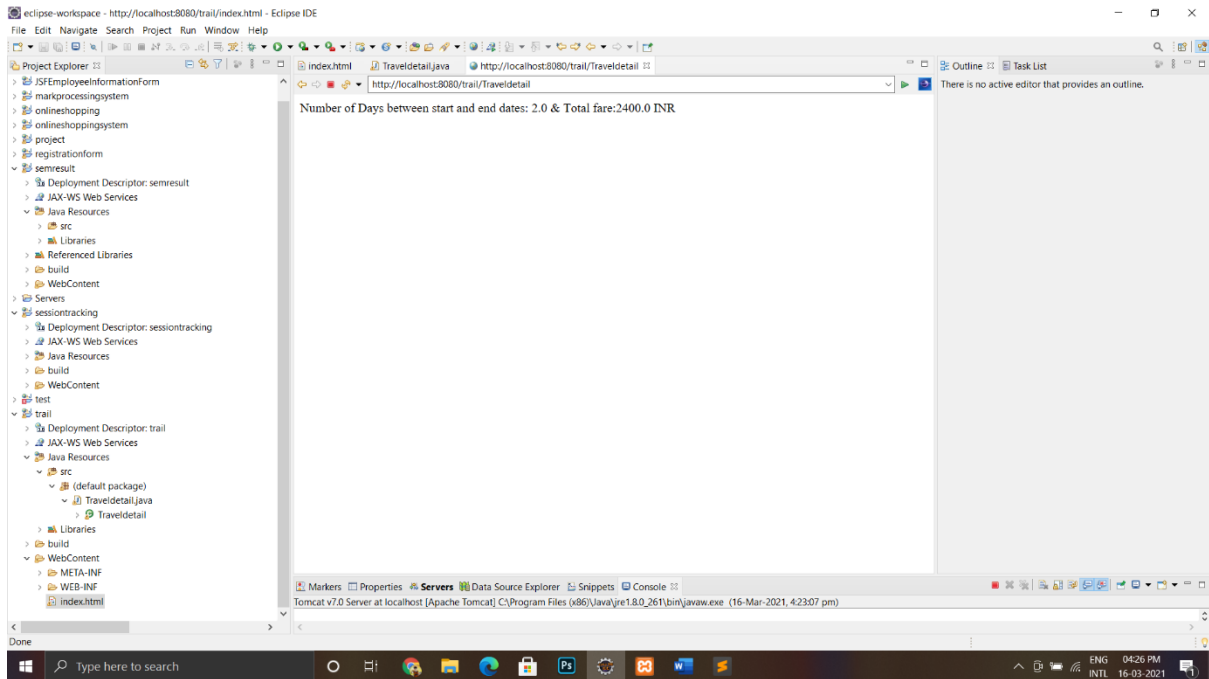
    out.println(" Total fare:" + (daysBetween*fare) + " INR ");

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

```

Output:





3. CGPA Calculation program : (Revised version)

index.html

```

<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>Mark Processing System</title>
  </head>
  <body>
    <center>
      <h1>JSP Application - Mark Processing System</h1>
      <hr>
      <h2>IP Lab Student Records</h2>
      <form action="insertgrade.jsp" method="post">
        <pre>
Roll No      : <input type="text" name="rollno" required />

Name         : <input type="text" name="fname" required />

Integrated Programming      : <input type="text" name="mark1"
required/>

Information Security         : <input type="text" name="mark2"
required/>

Parallel and Distributed Systems : <input type="text" name="mark3"
required/>

Mobile Computing             : <input type="text" name="mark4"
required/>

```

Open Elective - II :

Professional Elective - II :

Integrated Programming Laboratory :

Information Security and Mobile Computing Laboratory :

Creative and Innovative Project :

```
        <input type="submit" value="submit" />
    </pre>
</form>
</center>
</body>
</html>
```

insertgrade.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@page import="java.sql.*,java.util.*,
javax.servlet.ServletException,
javax.servlet.annotation.WebServlet,
javax.servlet.http.HttpServlet,
javax.servlet.http.HttpServletRequest,
javax.servlet.http.HttpServletResponse,
javax.servlet.http.HttpSession"%>
```

```
<%
String rollno = request.getParameter("rollno");
String name = request.getParameter("fname");
int grade1[] = new int[9];
String grade[] = new String[9];

int no[] = new int[9];
no[0] = Integer.parseInt(request.getParameter("mark1"));
no[1] = Integer.parseInt(request.getParameter("mark2"));
no[2] = Integer.parseInt(request.getParameter("mark3"));
no[3] = Integer.parseInt(request.getParameter("mark4"));
no[4] = Integer.parseInt(request.getParameter("mark5"));
no[5] = Integer.parseInt(request.getParameter("mark6"));
no[6] = Integer.parseInt(request.getParameter("mark7"));
no[7] = Integer.parseInt(request.getParameter("mark8"));
no[8] = Integer.parseInt(request.getParameter("mark9"));
for(int i=0;i<9;i++){
    if(no[i] >= 91 && no[i] <=100){
        grade1[i] = 10;
    }
    else if(no[i] >= 81 && no[i] <=90) {
        grade1[i] = 9;
    }
}
```

```

        else if(no[i] >= 71 && no[i] <=80) {
            grade1[i] = 8;
        }
        else if(no[i] >= 61 && no[i] <=70) {
            grade1[i] = 7;
        }
        else if(no[i] >= 51 && no[i] <=60) {
            grade1[i] = 6;
        }
        else if(no[i] <= 50) {
            grade1[i] = 0;
        }
    }
}

```

```

int totalcredits = 24;

```

```

float gpa =
3*grade1[0]+3*grade1[1]+3*grade1[2]+3*grade1[3]+3*grade1[4]+3*grade1[5]+2*grade1[6]
+2*grade1[7]+2*grade1[8];

```

```

gpa/=totalcredits;

```

```

out.println("Your GPA is "+gpa+"\n");

```

```

for(int i=0;i<9;i++){
    if(no[i] >= 91 && no[i] <=100){
        grade[i] = "O";
    }
    else if(no[i] >= 81 && no[i] <=90) {
        grade[i] = "A+";
    }
    else if(no[i] >= 71 && no[i] <=80) {
        grade[i] = "A";
    }
    else if(no[i] >= 61 && no[i] <=70) {
        grade[i] = "B+";
    }
    else if(no[i] >= 51 && no[i] <=60) {
        grade[i] = "B";
    }
    else if(no[i] <= 50) {
        grade[i] = "RA";
    }
}

```

```

}
String g1= grade[0];
String g2= grade[1];
String g3= grade[2];
String g4= grade[3];
String g5= grade[4];
String g6= grade[5];
String g7= grade[6];
String g8= grade[7];
String g9= grade[8];

```

```

//    out.println(grade);
try

```

```

{
Class.forName("com.mysql.jdbc.Driver");
Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/test",
"root", "");
Statement st=conn.createStatement();
int i=st.executeUpdate("insert into
cgpa(rollno,name,ip,is1,pds,mc,oe,pe,iplab,isandmclab,cip,gpa)
values('"+rollno+"','"+name+"','"+g1+"','"+g2+"','"+g3+"','"+g4+"','"+g5+"','"+g6+
"','"+g7+"','"+g8+"','"+g9+"','"+gpa+"')");
out.println("\n Data is successfully inserted!");
out.println("<br>");

//out.println("<a href='view.jsp'>"+<click here to view your
gpa">"+</a><br><br><br>");
out.println("");
out.println("<a href='http://localhost:8080/markprocessingsystem/'>"+<click here
to insert marks">"+</a>");
}
catch(Exception e)
{
System.out.print(e);
e.printStackTrace();
}

%>
<html>
  <form action="view.jsp" method="post">
    <pre>
Enter your roll number : <input type="text" name="rollno" required />

    <input type="submit" value="submit" />
    </pre>
  </form>
</html>

```

view.jsp

```

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@page import="java.sql.DriverManager"%>
<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Statement"%>
<%@page import="java.sql.Connection"%>
<%@page import="java.sql.*,java.util.*,
javax.servlet.ServletException,
javax.servlet.annotation.WebServlet,
javax.servlet.http.HttpServlet,
javax.servlet.http.HttpServletRequest,
javax.servlet.http.HttpServletResponse,
javax.servlet.http.HttpSession"%>
<%

String driver = "com.mysql.jdbc.Driver";
String connectionUrl = "jdbc:mysql://localhost:3306/";
String database = "test";
String userid = "root";
String password = "";
int rollno = Integer.parseInt(request.getParameter("rollno"));
try {

```

```

Class.forName(driver);
} catch (ClassNotFoundException e) {
e.printStackTrace();
}
Connection connection = null;
Statement statement = null;
ResultSet resultSet = null;
%>

```

```

<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>Results</title>
  </head>
  <body>
    <h1>Retrieve Student Results</h1>
    <table border="1">
<tr>
<td>Roll no</td>
<td>Name</td>
<td>Integrated Programming </td>
<td>Information Security</td>
<td>Parallel and Distributed Systems</td>
<td>Mobile Computing</td>
<td>Open Elective - II</td>
<td>Professional Elective - II</td>
<td>Integrated Programming Laboratory</td>
<td>Information Security and Mobile Computing Laboratory</td>
<td>Creative and Innovative Project</td>
</tr>
<%

```

```

try{

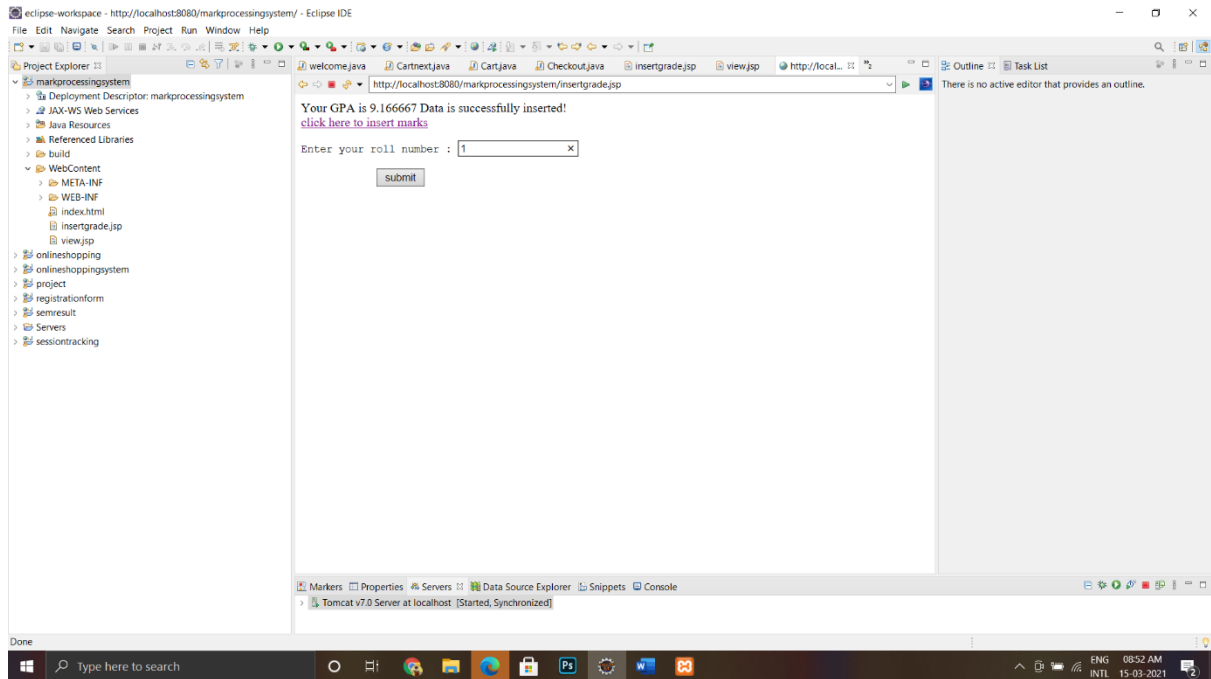
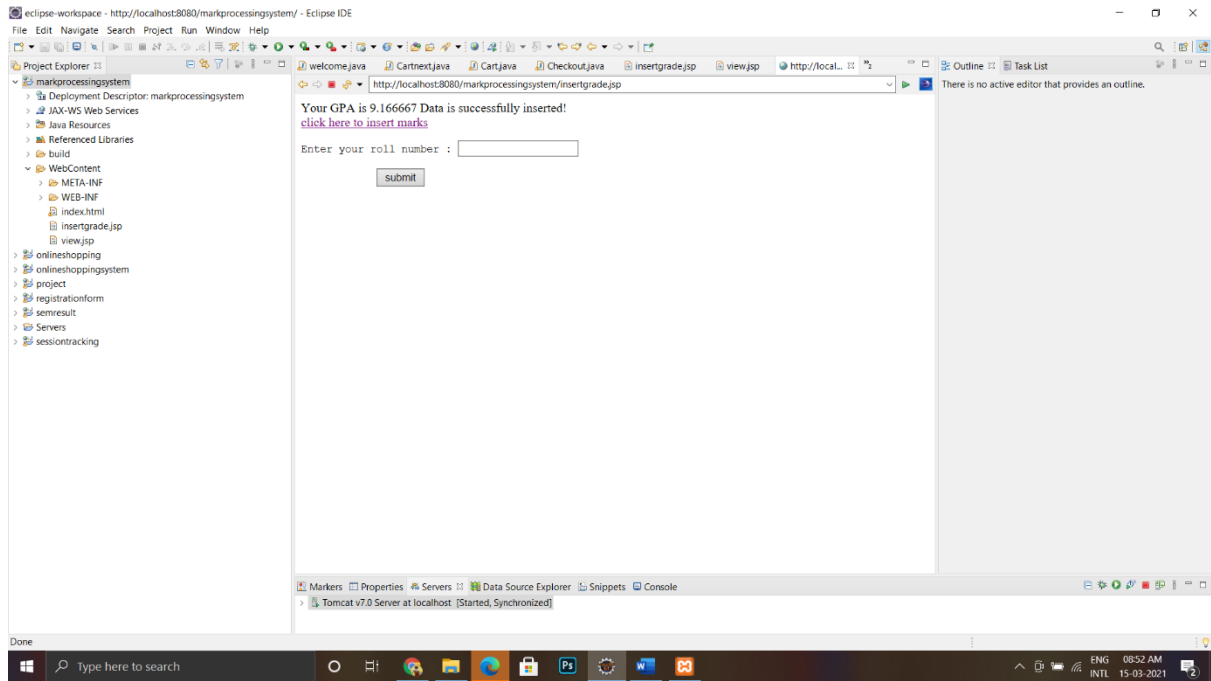
connection = DriverManager.getConnection(connectionUrl+database, userid,
password);
statement=connection.createStatement();
String sql = " select * from cgpa where rollno LIKE '%" + rollno + "%'";
//String sql ="SELECT * FROM something WHERE OjectName LIKE '%" + VariableName +
"%'""

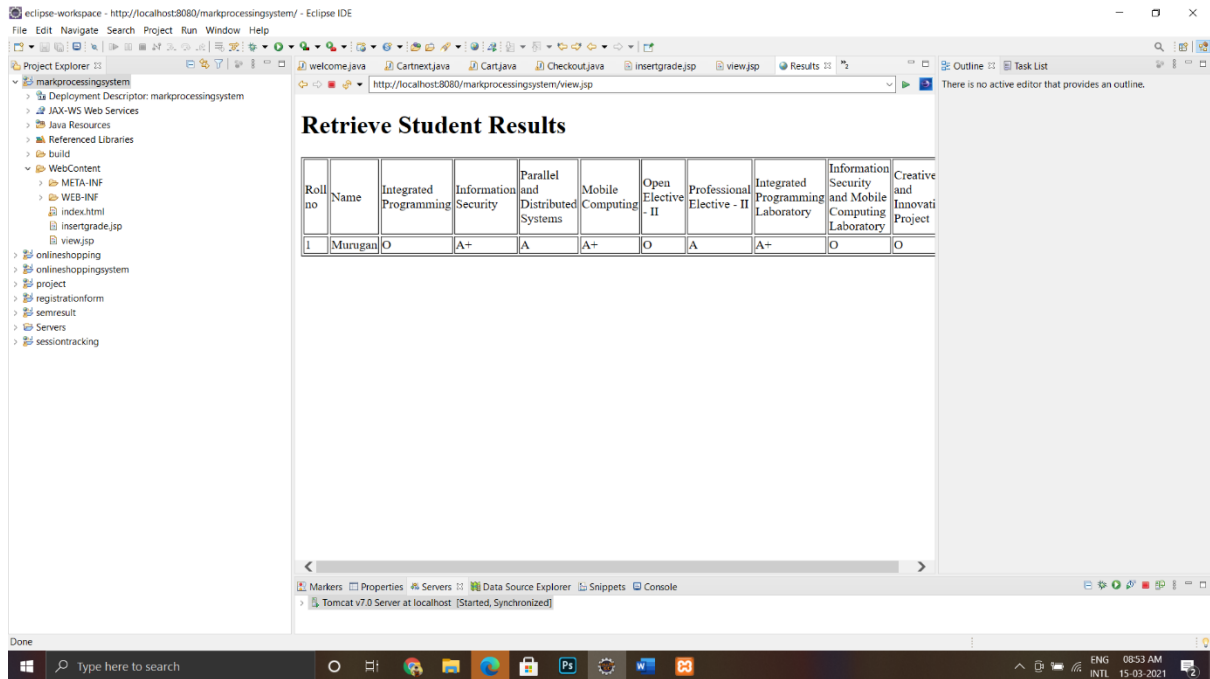
resultSet = statement.executeQuery(sql);
while(resultSet.next()){
%>
<tr>
<td><%=resultSet.getString("rollno") %></td>
<td><%=resultSet.getString("name") %></td>
<td><%=resultSet.getString("ip") %></td>
<td><%=resultSet.getString("is1") %></td>
<td><%=resultSet.getString("pds") %></td>
<td><%=resultSet.getString("mc") %></td>
<td><%=resultSet.getString("oe") %></td>
<td><%=resultSet.getString("pe") %></td>

```


Output :







4. Online shopping system using MySQL database and sessions.

(Revised version)

index.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Add Products</title>
    </head>
    <body>
        <center>
            <h1>Online Shopping system</h1>
            <h1>Enter products to add to the Database</h1>
            <form action="Upload" method="POST">
                Product ID: <input type="text" name="id" />
                <br>
                <br>
                Product Name: <input type="text" name="productname" />
                <br>
                <br>
                Product Description : <input type="text" name="productdesc" />
                <br>
                <br>
                Product Price : <input type="text" name="price" />
                <br>
                <br>
                <input type="submit" value="Add Products" />
            </form>
        </center>
```

```
</body>  
</html>
```

Upload.java

```
import java.io.IOException;  
import java.io.PrintWriter;  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.PreparedStatement;  
import java.sql.SQLException;  
import java.util.logging.Level;  
import java.util.logging.Logger;  
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("/Upload")  
public class Upload extends HttpServlet{  
    Connection con;  
    PreparedStatement pat;  
    int row;
```

```
public void doPost(HttpServletRequest req,HttpServletResponse rsp)throws  
IOException,ServletException{
```

```
    rsp.setContentType("text/html");
```

```
    PrintWriter out = rsp.getWriter();
```

```
    try {
```

```
        Class.forName("com.mysql.jdbc.Driver");
```

```
        con = DriverManager.getConnection("jdbc:mysql://localhost/test",  
"root", "");
```

```
        String id = req.getParameter("id");
```

```
        String name = req.getParameter("productname");
```

```
        String desc = req.getParameter("productdesc");
```

```
        String price = req.getParameter("price");
```

```
        pat = con.prepareStatement("insert into  
products(id,productname,productdesc,productprice)values(?,?,?,?)");
```

```
        pat.setString(1,id);
```

```
        pat.setString(2,name);
```

```
        pat.setString(3, desc);
```

```
        pat.setString(4,price);
```

```
        row = pat.executeUpdate();
```

```
        out.println("<font color='green'> Record Added Successfully </font>");
```

```

        } catch (ClassNotFoundException ex) {

            Logger.getLogger(Upload.class.getName()).log(Level.SEVERE, null,
ex);

        } catch (SQLException ex) {

            out.println("<font color='red'> Record not Added Successfully
</font>");

        }

        out.println("");

        out.println("<a
href='http://localhost:8080/onlineshopping/welcome'>"+ "click here to see
available products"+ "</a>");

    }

}

```

welcome.java

```

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

```

```
import java.util.List;

import java.util.logging.Level;

import java.util.logging.Logger;

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 static jdk.nashorn.internal.objects.NativeFunction.function;
```

```
@WebServlet("/welcome")
```

```
public class welcome extends HttpServlet{
```

```
    Connection con;
```

```
    PreparedStatement pat;
```

```
    ResultSet rs;
```

```
    int row;
```

```
    public void doGet(HttpServletRequest req,HttpServletResponse rsp) throws
    IOException,ServletException
```

```
    {
```

```
List<String> proid= (List<String>)  
req.getSession().getAttribute("Productidlist");
```

```
List<String> pronaame= (List<String>)  
req.getSession().getAttribute("Productnamelist");
```

```
List<String> prodes= (List<String>)  
req.getSession().getAttribute("Productdesclist");
```

```
List<String> proprice= (List<String>)  
req.getSession().getAttribute("Productpricelist");
```

```
rsp.setContentType("text/html");
```

```
PrintWriter out = rsp.getWriter();
```

```
try {
```

```
    Class.forName("com.mysql.jdbc.Driver");
```

```
    con = DriverManager.getConnection("jdbc:mysql://localhost/test",  
"root", "");
```

```
    String sql;
```

```
    sql = "select * from products";
```

```
    Statement stat = con.createStatement();
```

```
    rs = stat.executeQuery(sql);
```

```
    out.println("Available products");
```

```
    out.println("<table cellpadding='0' width='350px' border='1'>");
```



```
out.println("<tr>");

out.println("<td> Product ID </td>");

out.println("<td> Product Name </td>");

out.println("<td> Product Description </td>");

out.println("<td> Price </td>");

out.println("<td> Addtocart </td>");


out.println("</tr>");


while(rs.next()) {

    out.println("<tr>");

    out.println("<td>" + rs.getString("id") + "</td>");

    out.println("<td>" + rs.getString("productname") + "</td>");

    out.println("<td>" + rs.getString("productdesc") + "</td>");

    out.println("<td>" + rs.getString("productprice") + "</td>");

    out.println("<td>" + "<a href='Cart?id=" + rs.getString("id") + "'> Add  
to cart </a>" + "</td>");

    out.println("</tr>");

}
```

```

        out.println("</table>");

        if(!proid.isEmpty())
        {
            out.println("your cart is not empty please checkout");
            out.println("<td>" + "<a href='Cartnext'>Go to cart</a>" + "</td>");

        }

    } catch (ClassNotFoundException ex) {

        Logger.getLogger(welcome.class.getName()).log(Level.SEVERE, null,
ex);
    } catch (SQLException ex) {

        out.println("<font color='red'> Record not found</font>");

    }

}

}

```

Cart.java

```

import static com.sun.corba.se.spi.presentation.rmi.StubAdapter.request;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;

```

```
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.List;
import java.util.logging.Level;
import java.util.logging.Logger;
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;
```

```
@WebServlet("/Cart")
```

```
public class Cart extends HttpServlet{
```

```
    Connection con;
```

```
    PreparedStatement pat;
```

```
    ResultSet rs;
```

```
    int row;
```

```
    List<String> idl = new ArrayList<String>();
```

```
    List<String> namel = new ArrayList<String>();
```

```

List<String> desc1 = new ArrayList<String>();

List<String> price1 = new ArrayList<String>();

public void doGet(HttpServletRequest req, HttpServletResponse rsp) throws
IOException, ServletException
{

    rsp.setContentType("text/html");

    PrintWriter out = rsp.getWriter();

    String id = req.getParameter("id");

    try {
        Class.forName("com.mysql.jdbc.Driver");

        con = DriverManager.getConnection("jdbc:mysql://localhost/test",
"root", "");

        pat = con.prepareStatement("select * from products where id = ?");
        pat.setString(1, id);
        rs = pat.executeQuery();

        while(rs.next())
        {
            if(!idl.contains(rs.getString("id")))
            {
                idl.add(rs.getString("id"));
            }
        }
    }
}

```

```
if(!namel.contains(rs.getString("productname")))
{
    namel.add(rs.getString("productname"));
}
if(!descl.contains(rs.getString("productdesc")))
{
    descl.add(rs.getString("productdesc"));
}
if(!pricel.contains(rs.getString("productprice")))
{
    pricel.add(rs.getString("productprice"));
}
}
```

```
req.getSession().setAttribute("Productidlist",idl);
req.getSession().setAttribute("Productnamelist",namel);
req.getSession().setAttribute("Productdesclist",descl);
req.getSession().setAttribute("Productpricelist",pricel);
```

```
if(idl.contains(id))
{
```

```
    out.println(idl);
    rsp.sendRedirect("welcome");
```

```

        out.println("<br>");

    }

    } catch (ClassNotFoundException ex) {
        Logger.getLogger(Cart.class.getName()).log(Level.SEVERE, null, ex);
    } catch (SQLException ex) {
        Logger.getLogger(Cart.class.getName()).log(Level.SEVERE, null, ex);
    }

}
}

```

Cartnext.java

```

import java.io.IOException;
import java.io.PrintWriter;
import java.util.List;
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("/Cartnext")

public class Cartnext extends HttpServlet{

    public void doGet(HttpServletRequest req,HttpServletResponse rsp)throws
    IOException,ServletException {

        List<String> proid= (List<String>)
req.getSession().getAttribute("Productidlist");

        List<String> pronaame= (List<String>)
req.getSession().getAttribute("Productnamelist");

        List<String> prodes= (List<String>)
req.getSession().getAttribute("Productdesclist");

        List<String> proprice= (List<String>)
req.getSession().getAttribute("Productpricelist");


        rsp.setContentType("text/html");

        PrintWriter out = rsp.getWriter();

        out.println("Products in the cart click buy to buy the products");

        out.println("<table border='1'>");

        out.println("<tr>");

        out.println("<td> Product ID </td>");

        out.println("<td> Product Name </td>");

        out.println("<td> Product Description </td>");

        out.println("<td> Product price </td>");

        out.println("<td> Checkout </td>");

        out.println("</tr>");

        for(int i=0;i<proid.size();i++)

```

```

{
    out.println("<tr>");

    out.println("<td>" + proid.get(i) + "</td>");
    out.println("<td>" + proname.get(i) + "</td>");
    out.println("<td>" + prodes.get(i) + "</td>");
    out.println("<td>" + proprice.get(i) + "</td>");

    out.println("<td>" + "<a href='Checkout?id=" + proid.get(i) + "'> Buy
</a>" + "</td>");

    out.println("</tr>");

}

}

}

```

Checkout.java

```

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.List;
import java.util.logging.Level;
import java.util.logging.Logger;
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("/Checkout")
```

```
public class Checkout extends HttpServlet{
```

```
    Connection con;
```

```
    PreparedStatement pat;
```

```
    ResultSet rs;
```

```
    int row;
```

```
    public void doGet(HttpServletRequest req,HttpServletResponse rsp)throws
IOException,ServletException
```

```
    {
```

```
        List<String> proid= (List<String>)
req.getSession().getAttribute("Productidlist");
```

```
        List<String> proname= (List<String>)
req.getSession().getAttribute("Productnamelist");
```

```
        List<String> prodes= (List<String>)
req.getSession().getAttribute("Productdesclist");
```

```
        List<String> proprice= (List<String>)
req.getSession().getAttribute("Productpricelist");
```

```
rsp.setContentType("text/html");
```

```
PrintWriter out = rsp.getWriter();
```

```
String s = req.getParameter("id");
```

```
int index = proid.indexOf(s);
```

```
try {
```

```
    Class.forName("com.mysql.jdbc.Driver");
```

```
    con = DriverManager.getConnection("jdbc:mysql://localhost/test",  
    "root", "");
```

```
    pat = con.prepareStatement("Delete from products where id = ?");
```

```
    pat.setString(1, s);
```

```
    row = pat.executeUpdate();
```

```
    proid.remove(index);
```

```
    proname.remove(index);
```

```
        prodes.remove(index);

        proprice.indexOf(index);

        out.println("<font color='green'> Your order is Successfully ordered !!
</font>");

        out.println("<a href='welcome'> Browse items for next happy shopping
</a>");


    } catch (ClassNotFoundException ex) {

        Logger.getLogger(Checkout.class.getName()).log(Level.SEVERE, null,
ex);

    } catch (SQLException ex) {

        out.println("<font color='red'> Record failed </font>");

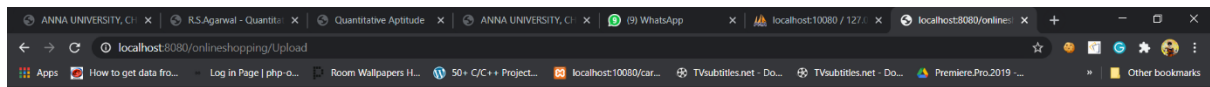
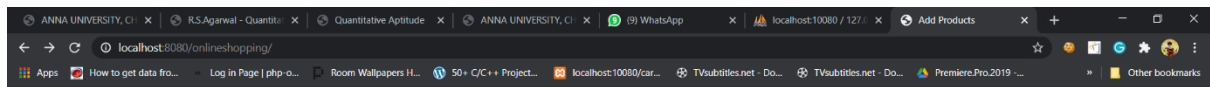
    }

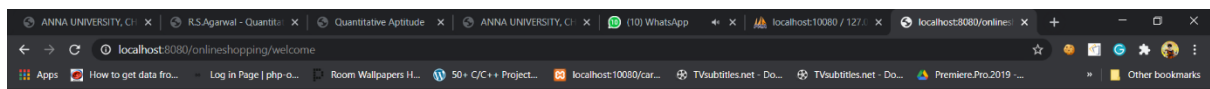
}

}

}
```

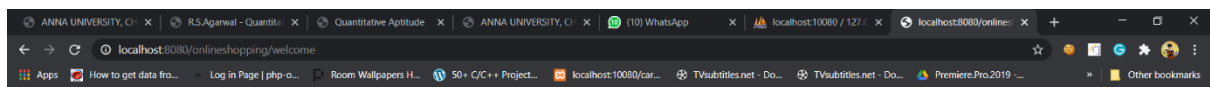
Output:





Available products

Product ID	Product Name	Product Description	Price	Addtocart
1	keyboard	110 keys	450	Add to cart
2	light	cfl	550	Add to cart
3	phone	8 gb ram	10550	Add to cart
4	mouse	wired	450	Add to cart

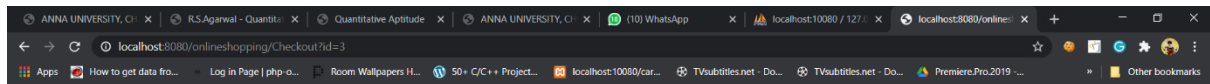
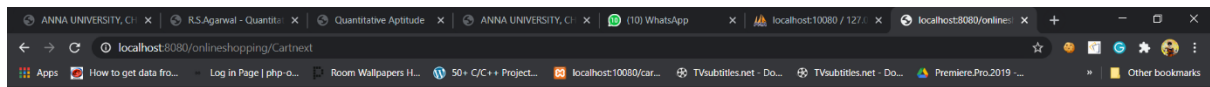


Available products

Product ID	Product Name	Product Description	Price	Addtocart
1	keyboard	110 keys	450	Add to cart
2	light	cfl	550	Add to cart
3	phone	8 gb ram	10550	Add to cart
4	mouse	wired	450	Add to cart

your cart is not empty please checkout [Go to cart](#)





Browser tabs: ANNA UNIVERSITY, C... | RS.Agarwal - Quantit... | Quantitative Aptitude | ANNA UNIVERSITY, C... | (10) WhatsApp | localhost:10080 / 127... | localhost:8080/online... |

Address bar: localhost:8080/onlineshopping/welcome

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Available products

Product ID	Product Name	Product Description	Price	Add to cart
1	keyboard	110 keys	450	Add to cart
2	light	cfl	550	Add to cart
4	mouse	wired	450	Add to cart

Windows taskbar: Type here to search | Taskbar icons: File Explorer, Edge, Photoshop, Word, Settings | System tray: ENG, 08:59 AM, 15-03-2021