EX NO: 1

Create a Web Page and Fix Hot Spots in India Map

AIM

To write a HTML program to embed an image map, fix a hot spot and to show all related information when a Hot Spot is clicked.

ALGORITHM:

Step 1: Start the program.

Step 2: Declare the HTML structure for the program.

Step 3: Embed the image in the web page.

Step 4: Fix the Hot Spot in image by Mapping with shape.

Step 5: Declare the address of the web page to be invoked when the Hot spot location is clicked.

Step 6: Embed the image with the Details in resulting page.

Step 7: Stop the program.

OUTPUT:

Homepage: TAMIL.html

TAMILNADU

CHENNAI IS THE CAPTIAL OF TAMILNADU "TAMIL" IS THE MOTHER TONGUE OF THIS STATE In Chennai "Marina Beach" is the 2nd largest Beach in the World

Home page: KERALA.html

KERALA KOCHI IS THE CAPTIAL OF KERALA IN KERALA "MALAYALAM" IS THE MOTHER TONGUE OF THIS STATE Kerala is one of the Tourist Place in India

Home page: KARNATAKA.html

KARNATAKA

BENGALURU IS THE CAPTIAL OF KARNATAKA BENGALURU IS ONE OF THE SMART CITY.

Home page: **ANDHRA.HTML**

ANDHRA PRADESH

HYDERABAD IS THE CAPTIAL OF ANDHRAPRADESH

EX.NO: 2

Create a Web Page Using CSS

AIM

To write HTML program to implement various tags to create a web page for our college using CSS.

ALGORITHM

Step 1: Start the program.

Step 2: Design the web page in a Format that has all tags.

Step 3: Declare the CSS stylesheet which has all the required styles for our webpage elements.

Step 4: Create various HTML pages for all the departments.

Step 5: Attach an image to a page Using img tag.

Step 6: Based on the linked selected call the appropriate web page.

Step 7: Stop the program.

OUTPUT

Panimalar Engineering college

J a i s a k t h i E d u c a t i o n a l T r u s t

A Christian Minority Institution

Introduction

Panimalar engineering college is a christian minorityb instituion of higher education meant for the aspiring youth, and comes under the direction of the jaisakthi educational trust. the college, and ISO certified instituion located near Poonamallee, Chennai, inculcates a spirit of learning and discipline in a comput that offers high class facilities to its students.

It ensures that an all round development is imparted to every student who enters the portals of the Panimalar college, for sufficient focus is given to home their communication and analytical skills.

Vision

To provide an academically conductive environment for individuals to develop as technologicalaly superior, socially consious and nationally responsible citizens.

Mission

We prepare our students to develop our department as a center of excellence, imparting quality education, generating competent and skilled manpower. we prepare our students with high degree of credibility, integrity, ethical standrads and social concern. we train our students to device and implement novel systems, based on Eucation and Research.,/p>

Courses offered

DEPT.HTML :

Panimalar engineering college

Jaisakthi Educational Trust

A Christian Minority Institution

- Under Graduation
- Post Graduation

UnderGraduation courses

- computer Science and Engineering
- Information Technology
- Electronics and Communication Engineering
- Electrical and Electronics Engineering
- Civil Engineering

Post Graduation

- Master of Computer Application
- Master of Business Administration

Home Page

EX NO: 3 **Validation Using JavaScript**

AIM:

To validate the registration, user login, user profile and payment by credit card pages using java script.

ALGORITHM:

STEP 1 : Start program

STEP 2 : Create a registration form using html,javascript and create styles using css.

STEP 3 : Create a user login page using html and validate the form using javascript.

STEP 4 : Design a payment page using html and the same.

STEP 5 : For successful login, direct the login page to ayment page.

STEP 6 : Get user credentials and validate the account.

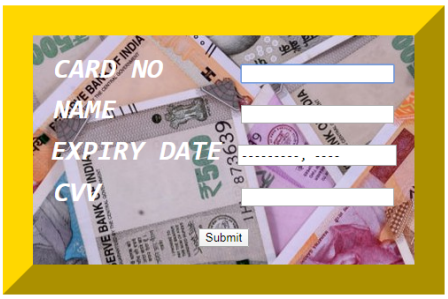
STEP 5 : Stop the program.

Output :

registration.html

login.html

Payment.html



EX NO: 4a INVOKING SERVLET FROM HTML FORM

AIM:

To write a HTML program for invoking the Servlet.

ALGORITHM:

Step 1: Start the program.

Step 2: Create the Servlet Program which Stores all values entered in the form.

Step 3: Display all the Information Received from the HTML Form.

Step 4: Declare the HTML structure for the program.

Step 5: Define the Action in the Form which will be invoked when the Form is submitted.

Step 6: Define the Text Boxes and Text Button for the Form to get the Values.

Step 7: Create the separate directory(base directory)for your application inside of webapps directory save your html file in it.

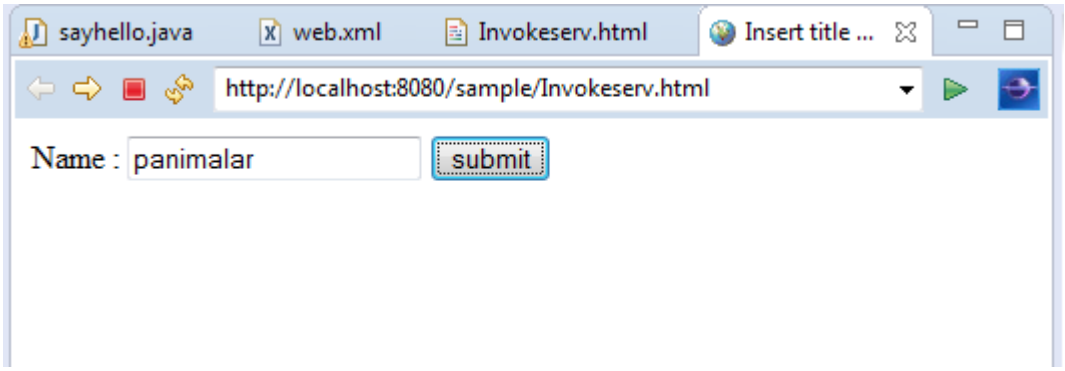
Step 8: Create WEB-INF directory and save the web.xml file in it.

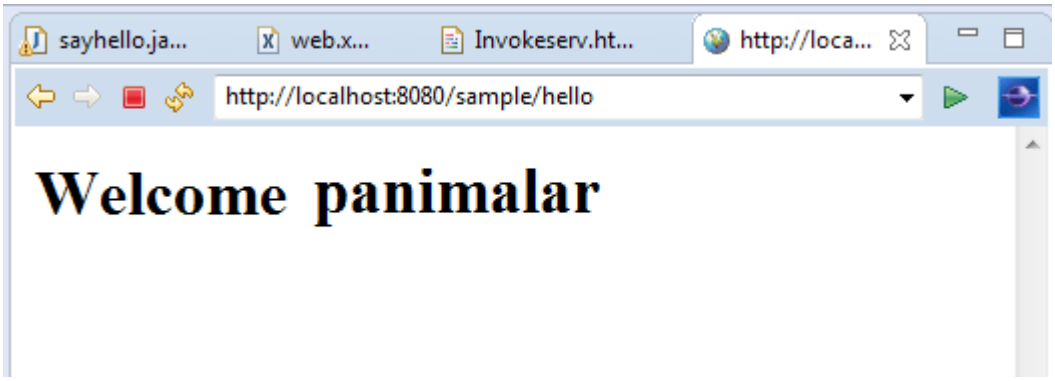
Step 9: Declare the necessary servlet mapping elements in web.xml file.

Step 10: Create the classes folder in WEB-INF directory and save servlet class in it.

Step 11: Start the tomcat server and deploy this application.

OUTPUT:


sayhello.java
web.xml
Invokeserv.html
Insert title ...
http://localhost:8080/sample/Invokeserv.html
Name : panimalar
submit


sayhello.ja...
web.x...
Invokeserv.ht...
http://loca...
http://localhost:8080/sample/hello
Welcome panimalar

EX NO: 4 b SESSION TRACKING USING HIDDEN FORM FIELDS

AIM:

To write a java program for session tracking using hidden form field method.

ALGORITHM:

Step 1: Create the two servlet classes (FirstServlet, SecondServlet) for session management.

Step 2: Create the index.html file to get user detail and to call FirstServlet class.

Step 3: Create response html file using form element and add user name as id in hidden field of form element.

Step 4: Using second html file call SecondServlet class and identify the user using name parameter.

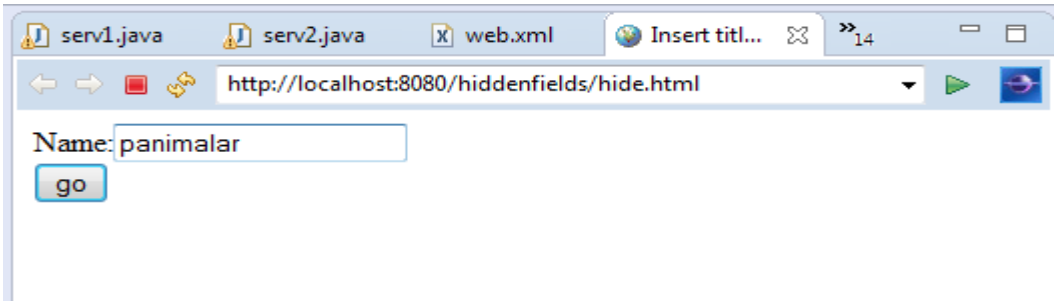
Step 5: Create the response html file using SecondServlet and add same name id as hidden field.

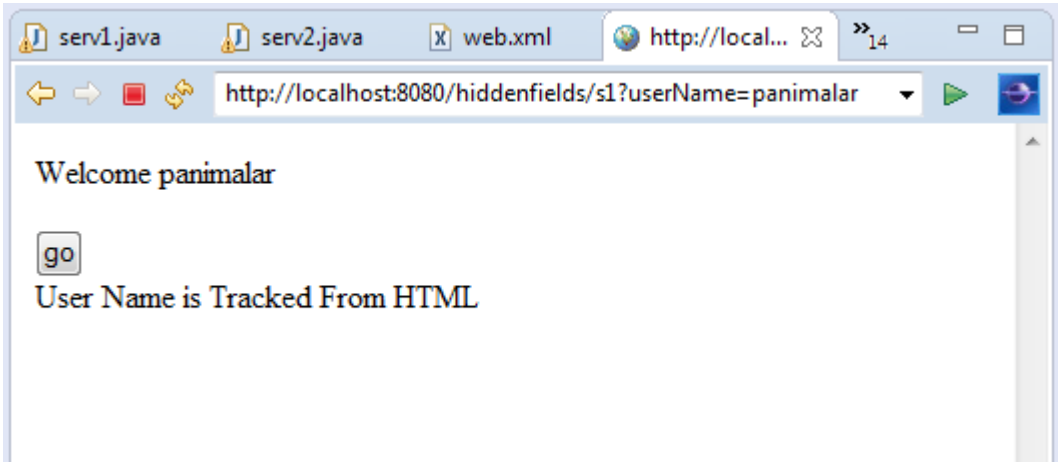
Step 6: Repeat this process for all pages in web applicaion.

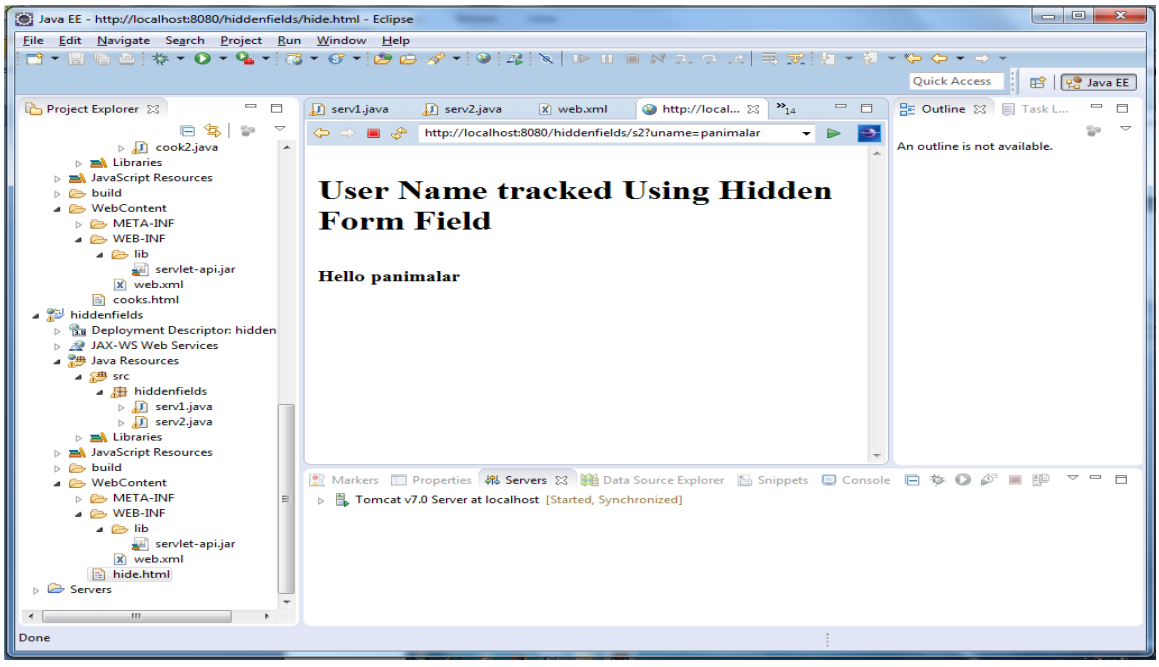
Step 7: Create the directory structure and save the files in the required place.

Step 8: Start the tomcat server and deploy the application.

OUTPUT:


serv1.java
serv2.java
web.xml
Insert titl...
http://localhost:8080/hiddenfields/hide.html
Name:
panimalar
go


serv1.java
serv2.java
web.xml
http://local...
http://localhost:8080/hiddenfields/s1?userName=panimalar
Welcome panimalar
go
User Name is Tracked From HTML


Java EE - http://localhost:8080/hiddenfields/hide.html - Eclipse
File Edit Navigate Search Project Run Window Help
Project Explorer
cook2.java
Libraries
JavaScript Resources
build
WebContent
META-INF
WEB-INF
lib
servlet-api.jar
web.xml
cooks.html
hiddenfields
Deployment Descriptor: hidden
JAX-WS Web Services
Java Resources
src
hiddenfields
serv1.java
serv2.java
Libraries
JavaScript Resources
build
WebContent
META-INF
WEB-INF
lib
servlet-api.jar
web.xml
hide.html
Servers
http://localhost:8080/hiddenfields/s2?uname=panimalar
User Name tracked Using Hidden Form Field
Hello panimalar
Outline
An outline is not available.
Markers Properties Servers Data Source Explorer Snippets Console
Tomcat v7.0 Server at localhost [Started, Synchronized]
Done

EXNO: 4 c SESSION TRACKING FOR HIT COUNT

AIM:

To create the java program to find out webpage hit counts using session tracking.

ALGORITHM:

Step 1: Create the **hits** class extending HttpServlet class.

Step 2: Create the session object by calling getSession() method on request object.

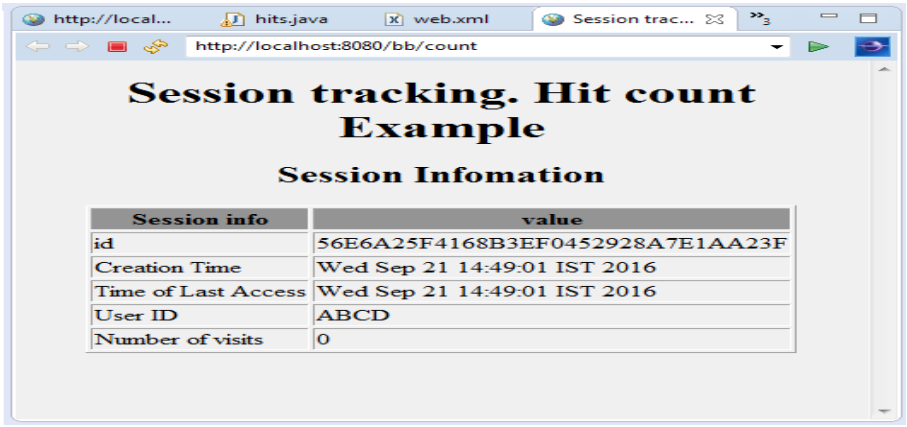
Step 3: Set the access count attribute value to 0 for first request.

Step 4: Increase the accesscount value for each client request separately.

Step 5: Display the pagecount to user by creating reponse HTML file in servlet program.

Step 6: Start the Tomcat server and deploy the application.

OUTPUT:



EX NO: 05 **ONLINE EXAMINATION USING**
DATE: **THREE-TIER APPLICATION**

AIM:

To write a Java Program to Create a Three Tire application for Online Examination Using Java Servlets and Database.

ALGORITHM:

Step 1: Start the Program.

Step 2: Declare the HTML structure for the program.

Step 3: Create a DataBase in mysql to Store the Values entered in Form.

Step 4: Create DSN connection for the DataBase.

Step 4: Get the Values from the Form.

Step 5: Store the Values in the DataBase.

Step 6: Retrieve and Display the Values.

Step 7: Stop the program.

/ * Steps to Compile & Execute the Servlet Program.

Exercise: Write programs in Java to create three-tier applications using servlets for conducting on-line examination for displaying student mark list. Assume that student information is available in a database which has been stored in a database server.

1. Create database in MYSql

- **Open MySql**
- **Password: tiger**
- **Step1: Create database Students;**
- **Step2:Use Students;**
- **Step3: Create table student(sid int(11),Name1 varchar(25),Total int(11));**

2. Type the HTML program(online.html) and servlet program(StudentServlet.java).

3. open command prompt - set java path.

4. set classpath=F:/JSDK2.0/src;%classpath%;

5. Compile the program.

6. copy the StudentServlet.classfile of the source program into F:\Apache Software Foundation\Tomcat 7.0\webapps\examples\WEB-INF\classes

6. open web.xml [open with notepad] from F:\Apache Software Foundation\Tomcat7.0\webapps\examples\WEB-INF

7. type the following statements near to the <servlet> tag which are already available in web.xml.

```
<servlet>
    <servlet-name>StudentServlet</servlet-name>
    <servlet-class>StudentServlet</servlet-class>
</servlet>
```

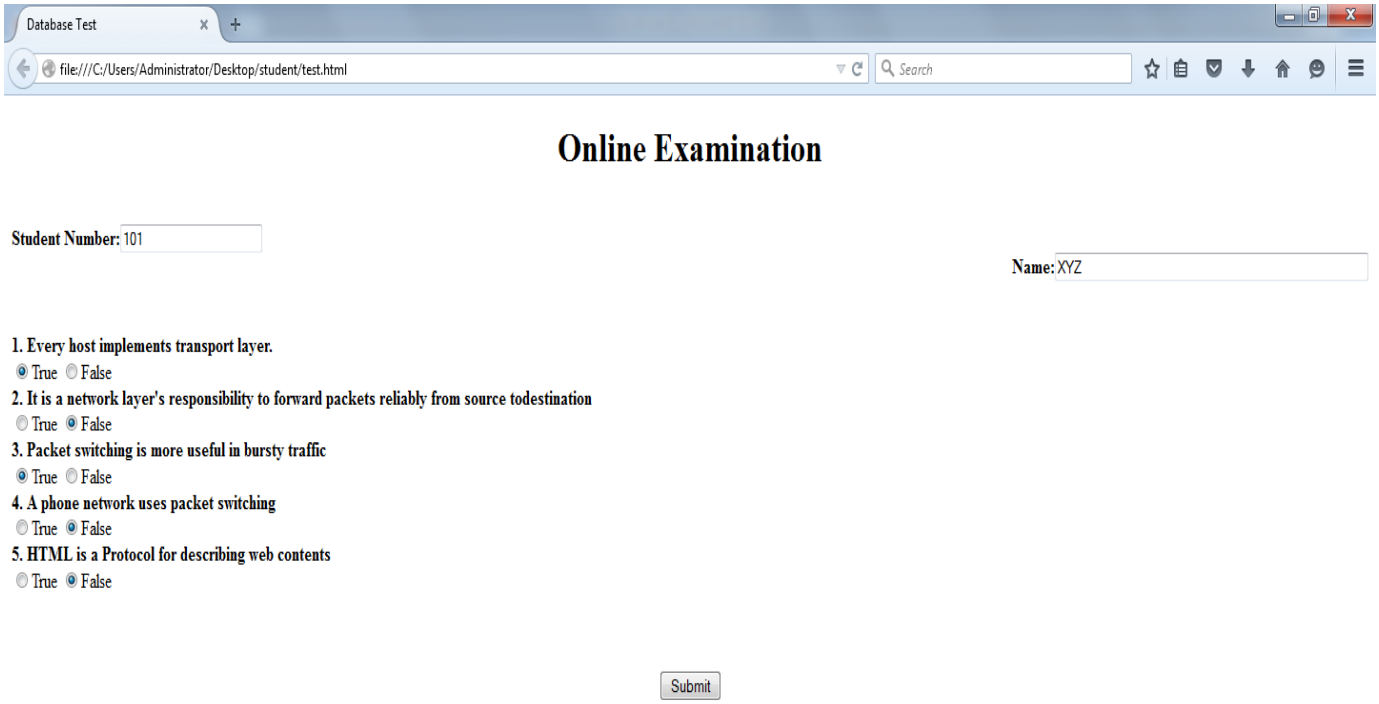
8. type the following statements near to the <servlet - mapping> tag which are already available in web.xml.

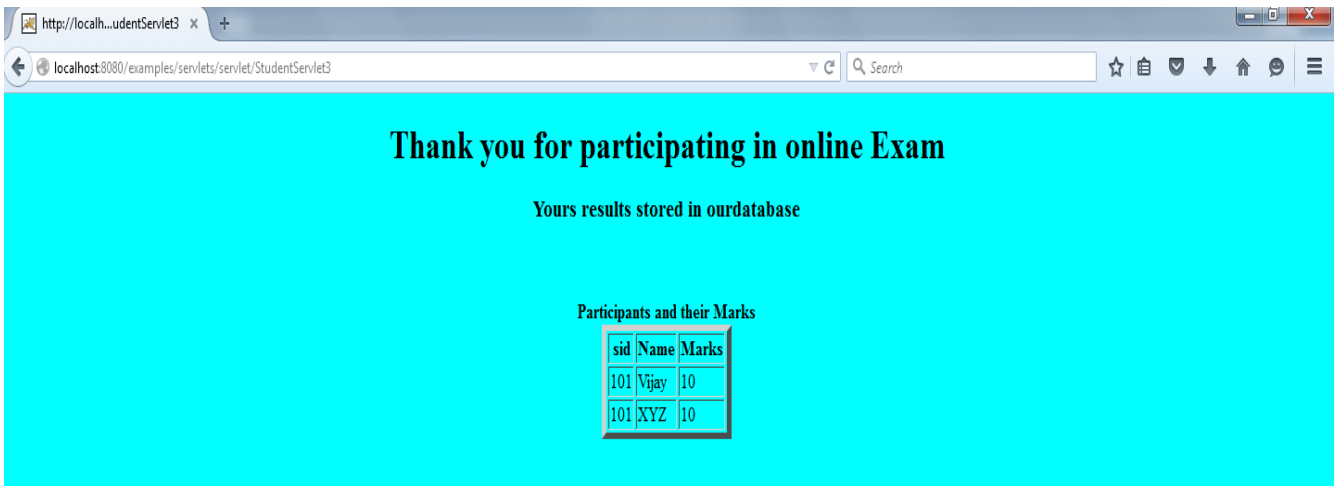
```
<servlet-mapping>
      <servlet-name>StudentServlet</servlet-name>
      <url-pattern>/servlets/servlet/StudentServlet</url-pattern>
</servlet-mapping>
```

9. start - tomcat server which is available from F:\Apache Software Foundation\Tomcat 7.0\bin\Tomcat7

10. open your HTML file in Firefox.

OUTPUT:





EX NO: 06 Shopping Cart Using Servlet and Cookies

AIM:

To validate the user login, user profile and payment by credit card using html and java servlets.

ALGORITHM:

Step 1: Start the designing of the program with an HTML and then proceed to design of a java servlets.

Step 2: Start html tag first. In the head tag the function profile (f1, f2) declare that describes the status of those users logged in successfully.

Step 3: In the body tag, describe the background colors to be used by using bgcolor.

Step 4: Three forms are used in developing the Web page.

Step 5: The first form will receive the username and password, on submit these data i.e., username & password are send to servlet for processing the information. If these values are valid then the program displays logged in successful. This form is preceded by marquee that scroll to either to left or right as specified.

Step 6: Second form contains one text field, one password field and one text area. This form gives the details of the user that will be displayed in text field.

Step 7: Third form contains the 2 text-field and one password field. This is useful to pay by credit card.

Step 8: To design a servlet import java packages, like servlet etc.

Step 9: Create a class UserInfo that extend properties of HttpServlet. The doPost method present in this class takes HttpServletRequest and HttpServletResponse as parameters.

Step 10: Set the MIME type to text/html. For any servlet the default MIME type is text/plain.

Step 11: An instance out for PrintWriter is created, which is initialized by using getWriter method.

Step 12: Strings user and password are created, which takes values sent by the user.

Step 13: Strings ua,pa,ub,pb contains the information of five users which is stored under the xml document.

Step 14: Values present in user password are verified with either ua, pa or ub, pb. If these are correct then display login successful message else login invalid message.

Step 15: To successfully execute this application an xml file is also to be created that should contain user details. User details are mentioned with in init-param tags.

Step 16: Place the class file and xml file under the WEB-INF directory then deploy under Tomcat.

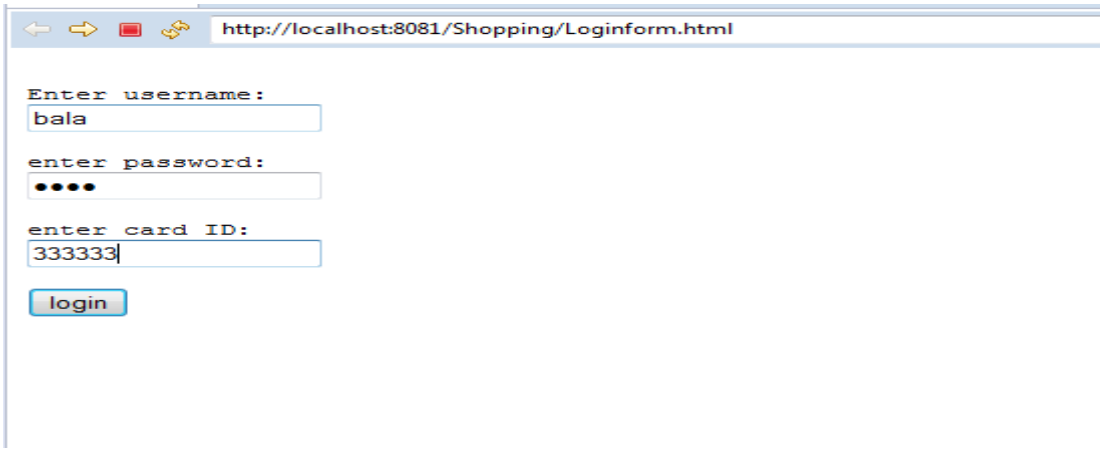
Step 1: Create Servlet Program

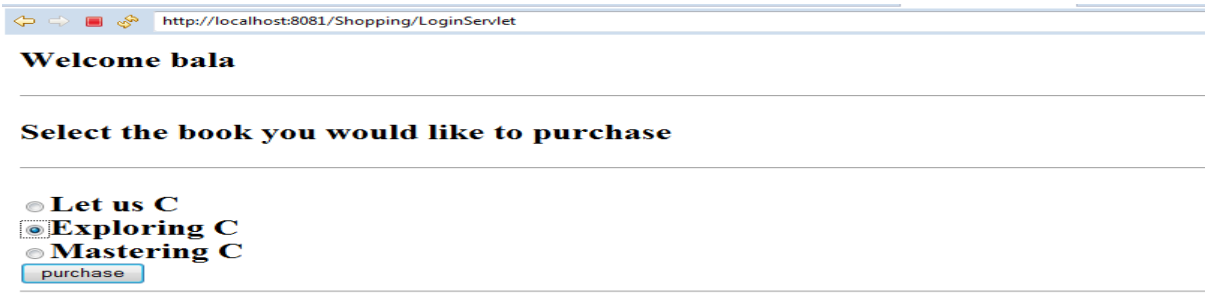
- **Open eclipse IDE tool**. Then select **"FILE→NEW→ Web Dynamic Project"**
- Type **project name: shopping.** Then click **next** button followed by **next** button.
- Then in the third screen **select "generate web.xml deployment descriptor"** checkbox then click **"Finish"** button
- In the project explorer shown left side, right **click on project named "shopping"** and select **new→class.** Then type **name: LoginServlet** and click **Finish button**
- Type the following code in **LoginServlet.java**
- In the project explorer shown left side, right **click on project named "shopping"** and select **new→class.** Then type **name: LoginSuccess** and click **Finish button**
- Type the following code in **LoginSuccess.java**
- right **click on WebContent of project named "shopping"** and select **new→html file.** Then type **name: loginform.html** and click **Finish button**
- Type the following code in **loginform.html**
- **Copy servlet-api.jar** from **F:\apache-tomcat-7.0.70\lib**
- In **project explorer**, expand **WebContent→WEB-INF**, right click on lib and select paste from popup menu
- In **project explorer**, right click on **WebContent→WEB-INF→web.xml** and select **open with→text editor**
- Right click on LoginServlet.java select run as→run on server and follow the step

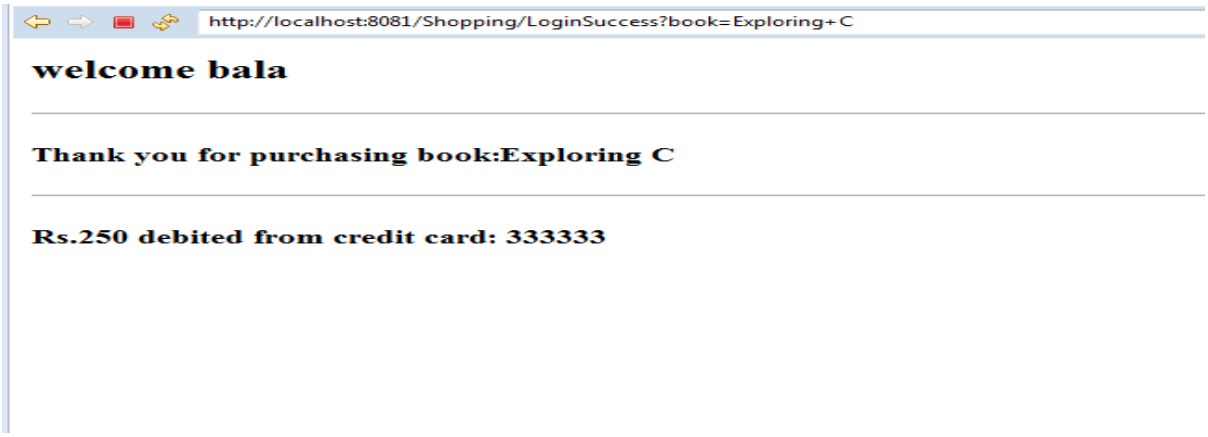
OUTPUT:

- Open browser and type the following URL address:

http://localhost:8081/Shopping/Loginform.html


http://localhost:8081/Shopping/Loginform.html
Enter username:
bala
enter password:
enter card ID:
333333
login


http://localhost:8081/Shopping/LoginServlet
Welcome bala
Select the book you would like to purchase
Let us C
Exploring C
Mastering C
purchase


http://localhost:8081/Shopping/LoginSuccess?book=Exploring+C
welcome bala
Thank you for purchasing book:Exploring C
Rs.250 debited from credit card: 333333

EX NO: 07 **Book Catalogue Using JSP and MYSQL**

AIM:

To validate the user login, user profile and payment by credit card by using HTML and JSP.

ALGORITHM:

Step 1: Start the Eclipse IDE.

Step 2: Create a Database using mysql named bookdetail.

Step 3: Create 2 JSP files namely borrowbook.jsp and storebook.jsp.

Step 4: In borrowbook.jsp create a connection to database and get the input values from the user.

Step 5: In another JSP file named storebook.jsp, it stores the information gathered from the user into database.

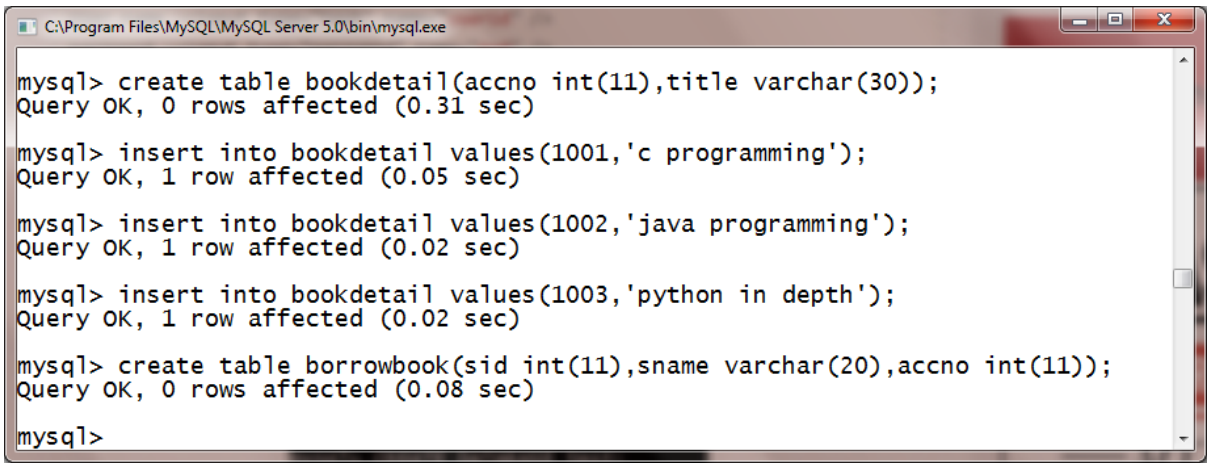
Step 6: Retreive and Display the values in database.

Step 7: Stop the program.

Step 1. Create database in MYSql

- **To Open MySql client select the following:**
  - Click **start→"All Programs"→MySQL→ "MySQL Server 5.0"→ "MySQL Command Line Client"**
  - **This will open MySQL client screen, in that type**

    Password: tiger
- **In the MySQL client, execute the following commands:**



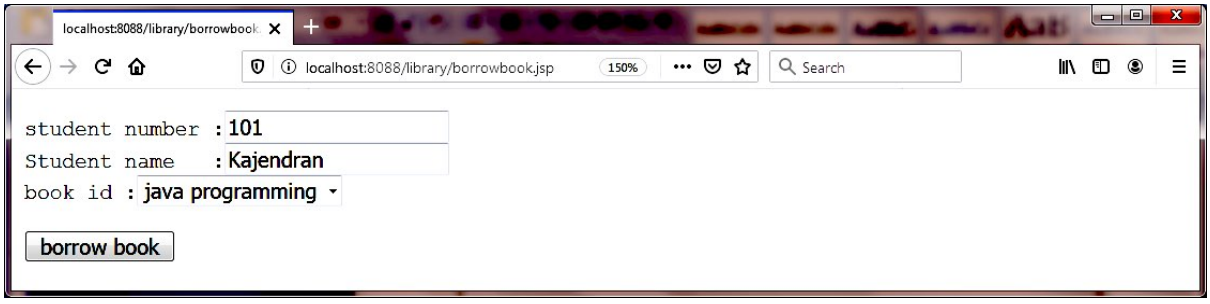
Step 2: Create JSP Program

- **Open eclipse IDE tool**. Then select **"FILE→NEW→ Web Dynamic Project"**
- Type **project name: library.** Then click **next** button followed by **next** button.
- Then in the third screen **select "generate web.xml deployment descriptor"** checkbox then click **"Finish"** button
- In the project explorer shown left side, right **click on WebContent under project "library"** and select **new→jsp file.** Then type **name:borrowbook.jsp** and click **Finish button**
- Type the following code in **borrowbook.jsp**
- In the project explorer shown left side, right **click on WebContent under project "library"** and select **new→jsp file.** Then type **name:storeborrow.jsp** and click **Finish button**
- Type the following code in **storeborrow.jsp**
- **Copy servlet-api.jar** from **F:\apache-tomcat-7.0.70\lib**
- In **project explorer**, expand **WebContent→WEB-INF**, right click on lib and select paste from popup menu
- Similarly copy **"mysql-connector-java-5.1.34.jar",** then right click on lib and select paste from popup menu
- Right click on **storeborrow.jsp** select run as→run on server and follow the step and copy the URL address

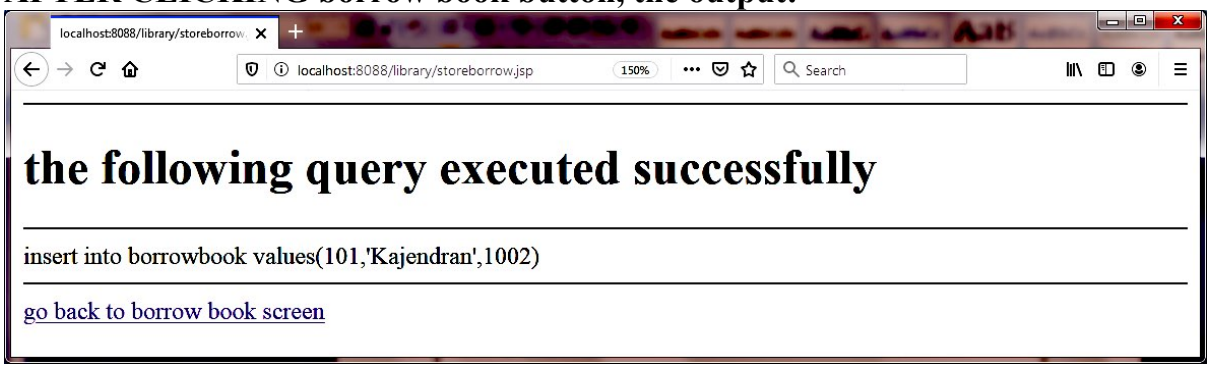
OUTPUT:

- Open browser and type the following URL address:

http://localhost:8088/library/borrowbook.jsp



AFTER CLICKING borrow book button, the output:



EX NO: 08 Retrieving Information from XML Document

AIM:

To write a javascript program to parse the given XML document and retrieve data.

ALGORITHM:

Step 1: Start the program.

Step 2: Store the required information of each employee in an XML document.

Step 3: Create a HTML file that accepts an employee ID as input from a text field from the user.

Step 4: Write javascript code to read all the data in the XML file using the XMLHttpRequest object.

Step 5: Find the information related to given input employee number.

Step 6: Display the result on the web browser if the inforamtion was found.

Step 7: Stop the program.

OUTPUT:

Retreiving information from XML Database

User ID : 1001 Submit

1001

Id	Name	Designation
1001	KARTHICK	MANAGER

EX NO: 09 Form Validation and Storing data in database Using PHP
DATE:

AIM:

To validate the form using PHP regular expression and stores a data into database.

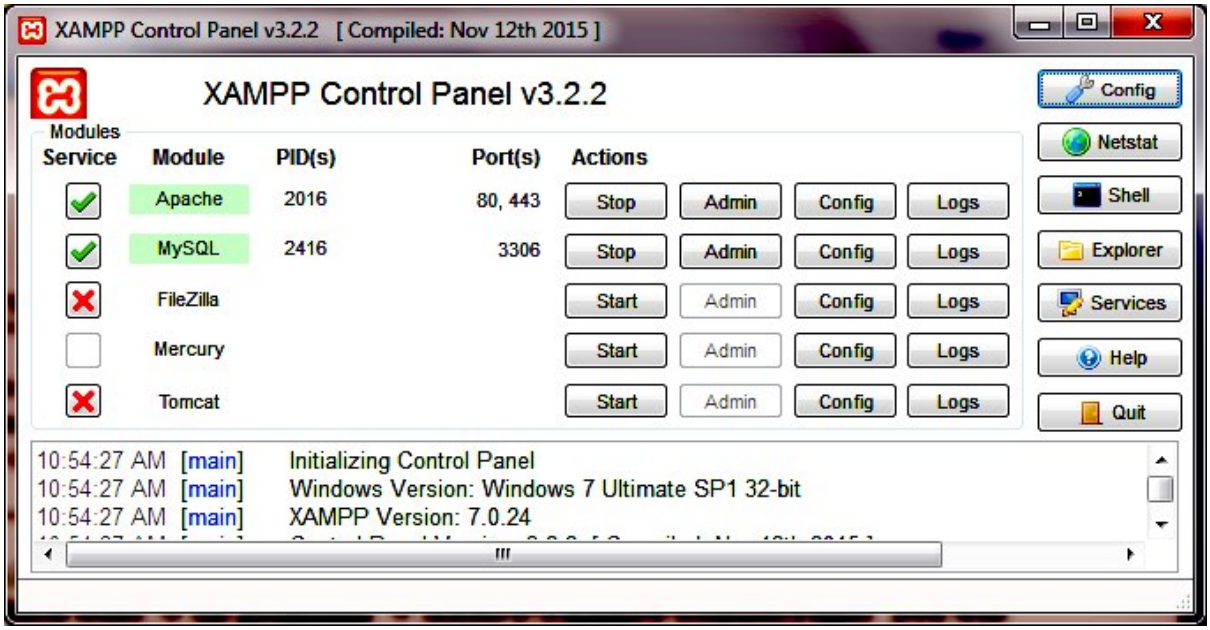
ALGORITHM:

Step 1: Start the program.
Step 2: Create a database named student.
Step 3: Start both Apache and MySql Service and click Admin button of MYSQL.
Step 4: Create Server Side Program using PHP.
Step 5: The PHP program will validate based on the given regular expression.
Step 6: Values are stored in the database.
Step 7: Stop the program.

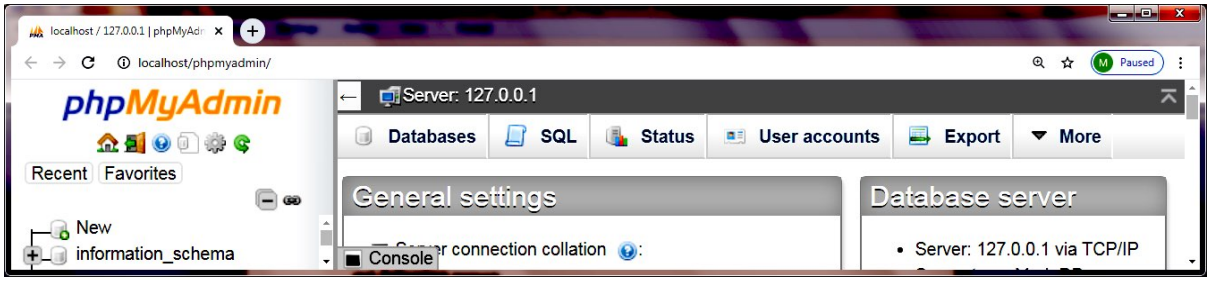
SOURCE CODE:

Step 1. Create database in MYSql

- **Click start → all programs → XAMPP→XAMPP Control Panel you will get following screen**



- In that Start both **Apache** and **MySql Service** and click **Admin** button of **MySQL**, which will bring the following screen:



- In that **click New** to create new database and type **name** = **student** and click **create** button
- Select **student database** on left pane and **click SQL tab** and type the following code as shown in the following screen:

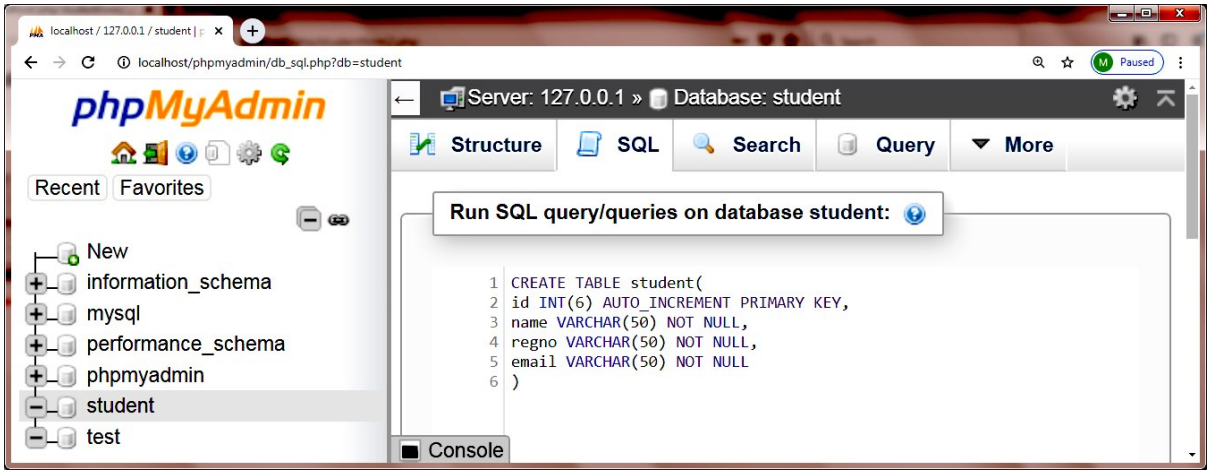


Table creation syntax:

CREATE TABLE student(

id INT(6) AUTO_INCREMENT PRIMARY KEY,
name VARCHAR(50) NOT NULL,
regno VARCHAR(50) NOT NULL,
email VARCHAR(50) NOT NULL
)

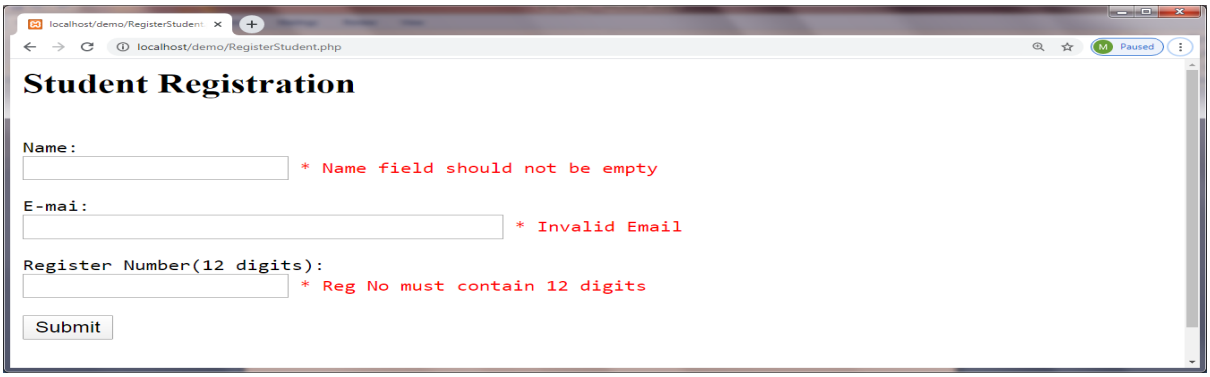
- Then **click Go to create table** named Student

Step2: Create Server Side Program using PHP

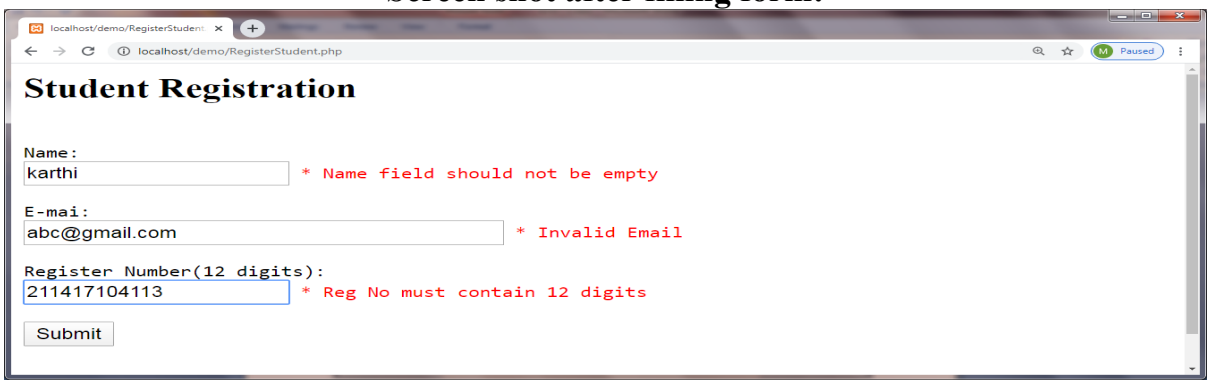
- Create folder called **demo** in the following path:
  "C:\xampp\htdocs"

OUTPUT:

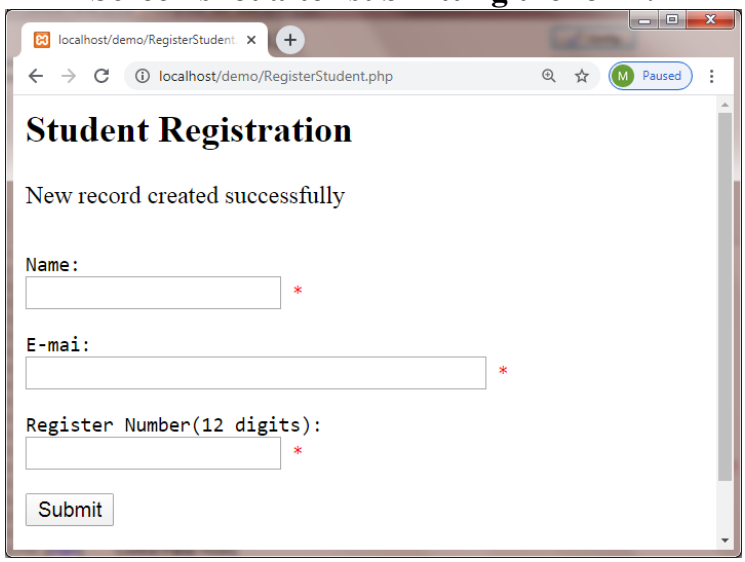
- Open browser and type the following URL address:
  http://localhost/demo/RegisterStudent.php



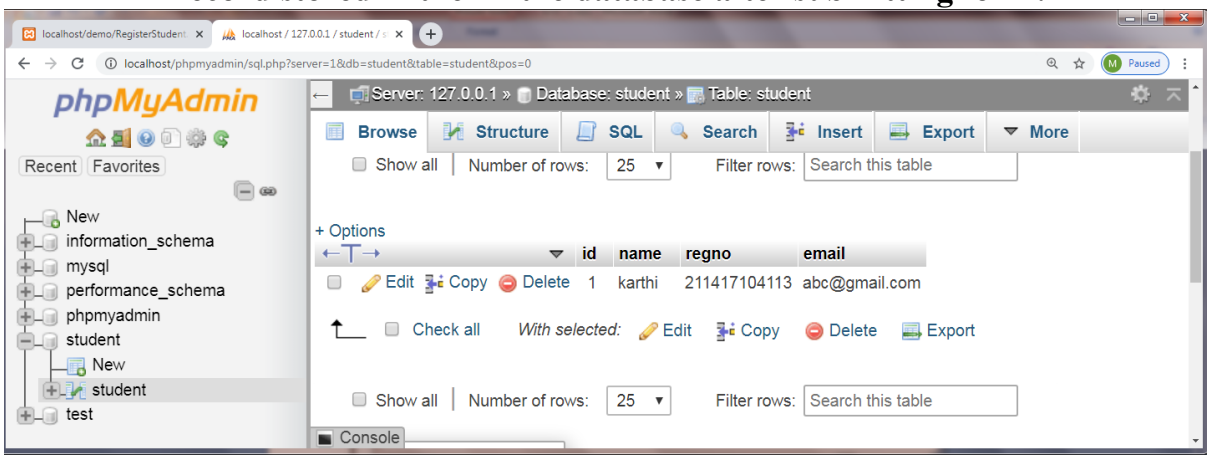
Screen shot after filling form:



Screen shot after submitting the form:



Record stored in the in the database after submitting form:



Note - If Apache runs on any port other than 80, for eg if it runs on port 81, then URL will be

http://localhost:81/demo/RegisterStudent.php

http://localhost:81/phpmyadmin

EX.NO: 10 Web Services for User opinion and Analysis

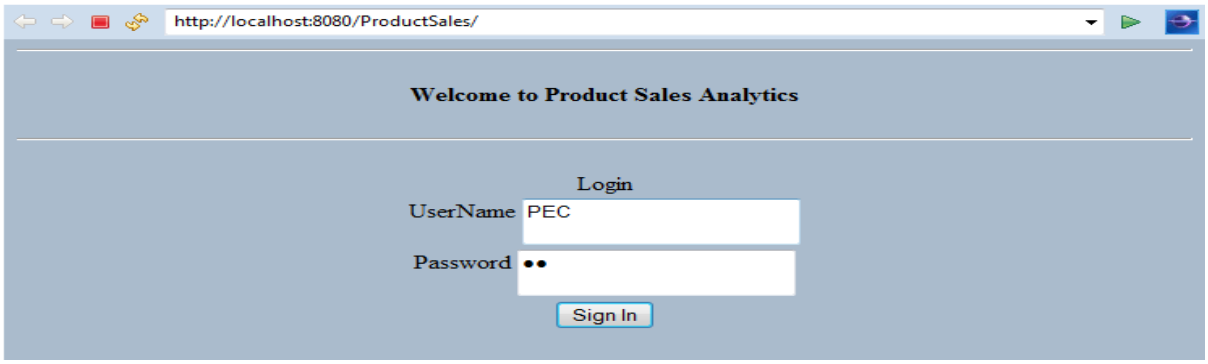
AIM:

To implement the program for the web services for getting user opinion and analysis.

ALGORITHM:

Step1: Start the Eclipse IDE
Step 2: Create a File named as Index.jsp
Step 3: Create another file named as Survey.jsp
Step 4: Write the code for the selection of various Products,
such as product1, product2, product 3 in the form of radio buttons.
Step 5: Create a file as web.xml which declares which urls are existing.
Step 6: Create 2 java files named ProductAnalysisService.java
ProductSalesPrediction.java .
Step 7: It is used for getting the user opinion and analysis about various products
Step 8: Now the product opinion is got and feedback gets submitted.
Step 9: Stop.

OUTPUT:



Welcome to Product Survey

Product Name ?

- Product1
- Product2
- Product3

How often you use this product ?

- Strongly Dislike the product
- Dislike the product.
- May Use the product.
- Like using the product.
- Use it every day.

Will you buy this product ?

- Will never buy
- May not Buy
- May Buy Occasionally
- Will Buy.
- Strongly Buy the product

http://localhost:8080/ProductSales/rest/analysis

Customer rating for product Product1 is 10%
Customer rating for product Product2 is 30%
Customer rating for product Product3 is 50%