

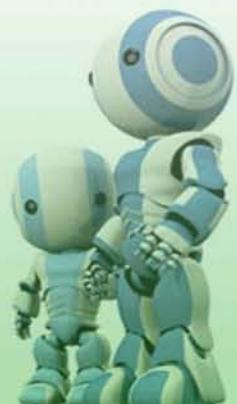
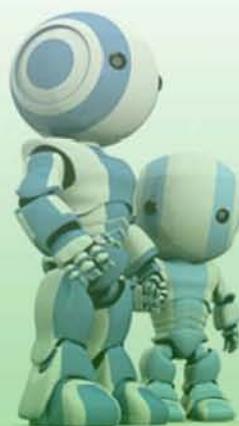
**Rajalakshmi Engineering College**  
**Rajalakshmi Nagar, Thandalam, Chennai - 602 105**  
**Department of Computer Science and Engineering**



**CS6512 - Internet Programming Lab**

**Sample Programs**

**(Regulation - 2013)**



**Prepared by:**

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## **CS6512 - INTERNET PROGRAMMING LABORATORY**

### **LIST OF EXPERIMENTS**

#### **Webpage Concepts**

- a) Create a web page with the following using HTML:
    - a. To embed a map in a web page.
    - b. To fix the hot spots in that map.
    - c. Show all the related information when the hot spots are clicked.
  - b) Create a web page with the following:
    - a. Cascading style sheets.
    - b. Embedded style sheets.
    - c. Inline style sheets.
- Use your college information for the web pages.
- c) Create and save an XML document at the server, which contains 10 users Information. Write a Program, which takes user Id as an input and returns the User details by taking the user information from the XML document.

#### **Sockets & Servlets**

- a) Write programs in Java using sockets to implement the following:
  - i. HTTP request
  - ii. FTP
  - iii. SMTP
  - iv. POP3
- b) Write a program in Java for creating simple chat application with datagram sockets and datagram packets.
- c) Write programs in Java using Servlets:
  - i. To invoke servlets from HTML forms.
  - ii. To invoke servlets from Applets.
- d) Write programs in Java to create three-tier applications using servlets:
  - i. for conducting on-line examination.
  - ii. for displaying student mark list. Assume that student information is available in a database which has been stored in a database server.
- e) Write a program to lock servlet itself to a particular server IP address and port number. It requires an init parameter key that is appropriate for its servlet IP address and port before it unlocks itself and handles a request.
- f) Session tracking using hidden form fields and Session tracking for a hit count.
- g) Install TOMCAT web server. Convert the static webpages of programs 1 & 2 into dynamic web pages using servlets (or JSP) and cookies. Hint: Users information (user id, password, credit card number) would be stored in web.xml. Each user should have a separate Shopping Cart.

#### **Advance concepts:**

- a) Implement a simple program using following frameworks:
  - a. JSP Struts Framework.
  - b. Hibernate.
  - c. Spring.
- b) Explore the following application in AJAX: Searching in real time with live searches, Getting the answer with auto complete, Chatting with friends, Dragging and dropping with Ajax, Getting instant login feedback, Ajax-enabled popup menus, Modifying Web pages on the fly.
- c) Write a web services for finding what people think by asking 500 people's opinion for any consumer product.
- d) Write a web services for predicting for any product sales.

Create a HTML page with frames, links, tables and other tags for highlighting the facilities in the Department in your College. State the assumptions you make (business logic you are taking into consideration).

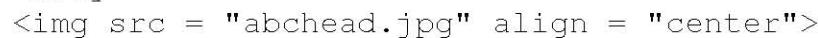
---

**PROGRAM:**

**DeptMain.html**

```
<html>
<head>
<title>
ABC
</title>
</head>
<frameset rows = "130,*" framespacing = "0">
<frame src = "depttop.html" name = "top" scrolling = "no" />
<frameset cols = "175, *">
<frame src = "deptleft.html" name = "left" scrolling = "no" />
<frame src = "deptright.html" name = "right" />
</frameset>
</frameset>
</html>
```

**DeptTop.html**

```
<html>
<head>
<title>
Top
</title>
</head>
<body>
 align = "center">
<center>A.B.C. Nagar, Chennai - 600 001</center>
</body>
</html>
```

### **DeptLeft.html**

```
<html>
<head>
<title>
About
</title>
</head>
<body>
<b>CSE</b>
<br /><br />
<a href = "DeptIntro.html" target = "right">Introduction</a>
<br /><br />
<a href = "DeptOppor.html" target = "right">Opportunities</a>
<br /><br />
<a href = "DeptFaculty.html" target = "right">
Faculty Members
</a>
<br /><br />
<a href = "DeptLab.html" target = "right">Lab Facility</a>
<br /><br />
<a href = "DeptNews.html" target = "right">News</a>
</body>
</html>
```

### **DeptRight.html**

```
<html>
<head>
<title>
Home
</title>
</head>
<body>
<b>Welcome to the Department of CSE - Home Page</b>
</body>
</html>
```

### **DeptIntro.html**

```
<html>
<head>
<title>
Introduction
</title>
</head>
<body>
<b>INTRODUCTION</b>
<br /><br />
<b>Vision</b>
<p align = "justify">
To provide the best opportunity to the students to attain
technical excellence in the field of Computer Science &
Engineering and Emerging Technologies and to develop a
comprehensive and integrated personality.
</p>
<b>Mission</b>
<p align = "justify">
To produce high quality Computer Science and Engineering
professionals adaptable to the changing environment, with all-
round Managerial capabilities, and commitment to the Society.
</p>
</body>
</html>
```

## **DeptOppor.html**

```
<html>
<head>
<title>
Frameset
</title>
</head>
<body>
<b>OPPORTUNITIES</b>
<br />
<p align = "justify">
Computer science and Engineering graduates are the pillars of
the current and emerging information era. Opportunities
include pursuing Master of Science Programs in reputed
Universities of U.S. and taking up research assignments in
Hardware, System Software, Computer Engineering, Multimedia,
Networking and Communication areas.
</p>
<p align = "justify">
Job opportunities are ever increasing and are varied in
nature. System study, analysis, Design and Programming are the
inherent phases in Application Development and each one of
them provides enormous potential to the Computer Science and
engineering graduates to shape themselves in their career. Hi-
end profiles include Artificial Intelligence, Robotics,
Graphic Solutions and Simulations.
</p>
<p align = "justify">
This degree program prepares students for Advanced, Technical
Computer Systems Design and Development Work. It includes the
study of the Database Design, Data Communications, Procedural
and Object Oriented Programming, Operating Systems Design,
Algorithm Development and Applications of Artificial
Intelligence. The curriculum includes basic course work in
Electronics Technology and the Theory of Programming
Languages. Students focus on developing computer-based
solutions involving hardware and software components and
integration. Graduates are qualified to work in a range of
positions, from entry-level computer scientists and system
engineers to project managers leading advanced applications of
computer science to real-world problems. The department has
since broadened its research strengths.
</p>
</body>
</html>
```

**DeptFaculty.html**

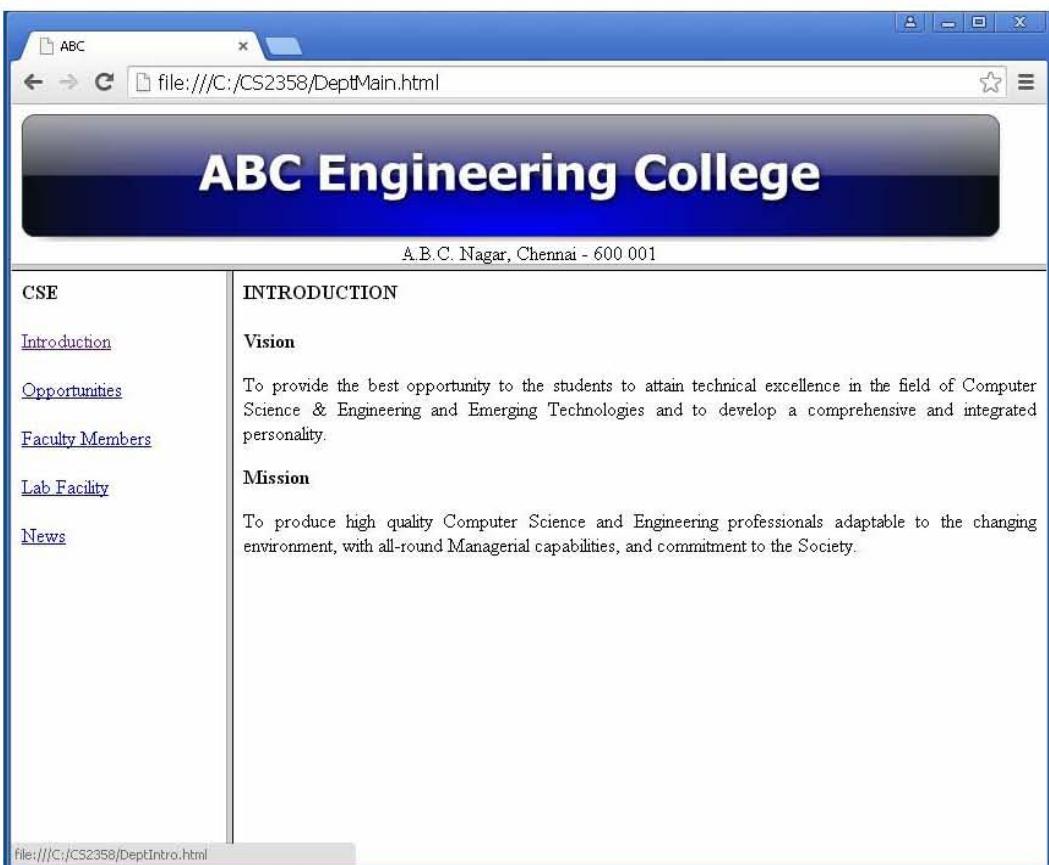
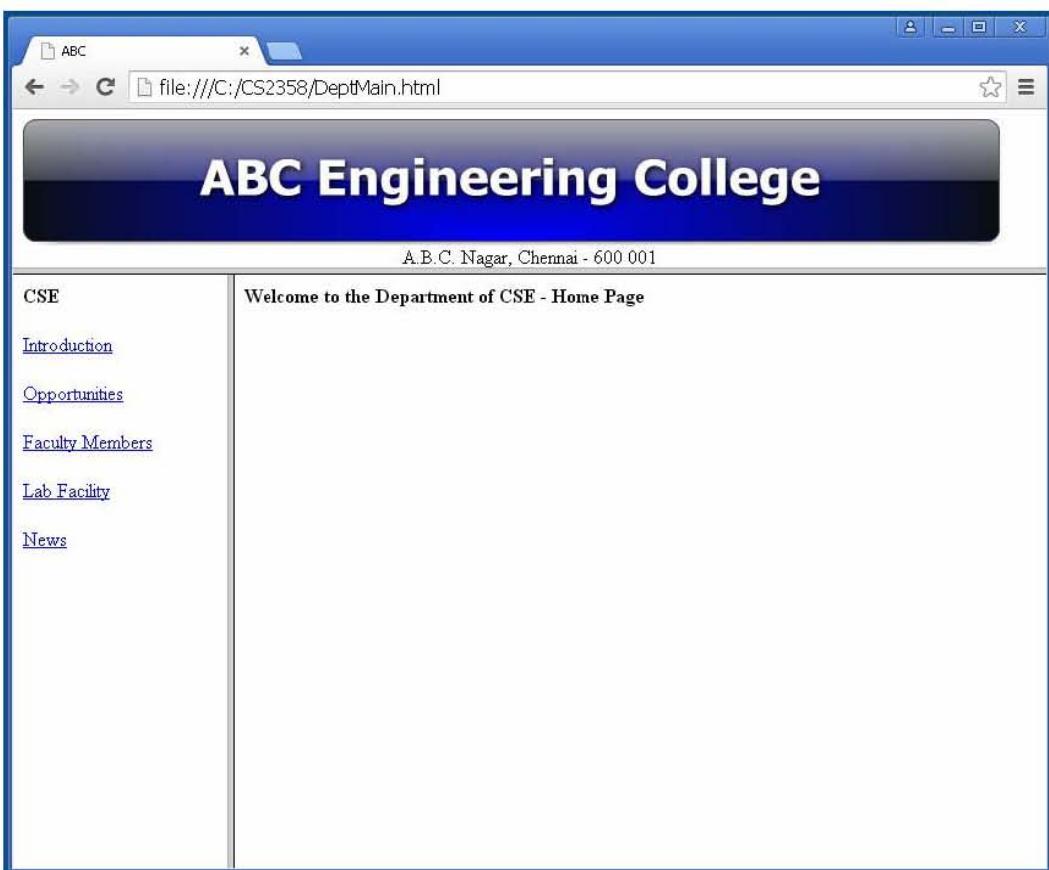
```
<html>
<head><title>Faculty Members</title></head>
<body>
<b>FACULTY MEMBERS</b>
<br /><br />
<table border = "1">
<tr><th>No.</th><th>Name</th><th>Designation</th>
</tr>
<tr>
<td>1</td><td>Dr.G.Sujitha</td> <td>Professor and Head</td>
</tr>
<tr>
<td>2</td><td>Dr.S.Chandrakala</td> <td>Professor</td>
</tr>
<tr>
<td>3</td><td>Dr.Bhanu Prasad Pinnamaneni</td>
<td>Professor</td>
</tr>
<tr>
<td>4</td><td>Dr.U.Karthikeyan</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>5</td><td>Mr.B.Swaminathan</td> <td>
Associate Professor</td>
</tr>
</table>
</body>
</html>
```

**DeptLab.html**

```
<html>
<head><title>Lab facility</title></head>
<body>
<b>LAB FACILITY</b>
<br />
<p align = "justify">
We have well established and equipped state of art laboratories for Data Structures, Linux, C and Office Suite, RDBMS and CASE Tools, Internet Programming, Research where students are allowed learn all the experiments and develop their innovative ideas.
</p>
</body>
</html>
```

## **DeptNews.html**

```
<html>
<head>
<title>
News
</title>
</head>
<body>
<b>NEWS</b>
<br /><br />
<b>RESEARCH CENTRE</b>
<p align = "justify">
The department is recognized as a Research Center for M.S. / Ph.D. by the ANNA UNIVERSITY.
</p>
<b>AFFILIATION</b>
<p align = "justify">
The Department has PERMANENT AFFILIATION from ANNA UNIVERSITY.
</p>
<b>AICTE-CII SURVEY</b>
<p align = "justify">
The department is Ranked 3rd in the AICTE-CII Survey conducted Nationwide for Industry Institute Interaction.
</p>
<b>IIT BOMBAY REMOTE CENTER</b>
<p align = "justify">
The department acts as Remote Center for conducting Spoken Tutorials, workshops and certifications by IIT, BOMBAY in collaboration with ISTE and funded by MHRD
</p>
<b>IBM CENTRE FOR EXCELLENCE</b>
<p align = "justify">
The department is credited with IBM Software Centre for Excellence and the lab is set for the same. We are also attributed to conduct International certifications by IBM trained faculty members.
</p>
</body>
</html>
```

**OUTPUT :**

**CSE**

[Introduction](#)  
[Opportunities](#)  
[Faculty Members](#)  
[Lab Facility](#)  
[News](#)

**OPPORTUNITIES**

Computer science and Engineering graduates are the pillars of the current and emerging information era. Opportunities include pursuing Master of Science Programs in reputed Universities of U.S. and taking up research assignments in Hardware, System Software, Computer Engineering, Multimedia, Networking and Communication areas.

Job opportunities are ever increasing and are varied in nature. System study, analysis, Design and Programming are the inherent phases in Application Development and each one of them provides enormous potential to the Computer Science and engineering graduates to shape themselves in their career. Hi-end profiles include Artificial Intelligence, Robotics, Graphic Solutions and Simulations.

This degree program prepares students for Advanced, Technical Computer Systems Design and Development Work. It includes the study of the Database Design, Data Communications, Procedural and Object Oriented Programming, Operating Systems Design, Algorithm Development and Applications of Artificial Intelligence. The curriculum includes basic course work in Electronics Technology and the Theory of Programming Languages. Students focus on developing computer-based solutions involving hardware and software components and integration. Graduates are qualified to work in a range of positions, from entry-level computer scientists and system engineers to project managers leading advanced applications of computer science to real-world problems. The department has since broadened its research strengths.

**CSE**

[Introduction](#)  
[Opportunities](#)  
[Faculty Members](#)  
[Lab Facility](#)  
[News](#)

**FACULTY MEMBERS**

No.	Name	Designation
1	Dr G. Sujitha	Professor and Head
2	Dr S. Chandrakala	Professor
3	Dr Bhanu Prasad Pinnamaneni	Professor
4	Dr U. Karthikeyan	Associate Professor
5	Mr B. Swaminathan	Associate Professor

**ABC Engineering College**

A.B.C. Nagar, Chennai - 600 001

CSE	<b>LAB FACILITY</b> We have well established and equipped state of art laboratories for Data Structures, Linux, C and Office Suite, RDBMS and CASE Tools, Internet Programming, Research where students are allowed learn all the experiments and develop their innovative ideas
<a href="#">Introduction</a>	
<a href="#">Opportunities</a>	
<a href="#">Faculty Members</a>	
<a href="#">Lab Facility</a>	
<a href="#">News</a>	

**ABC Engineering College**

A.B.C. Nagar, Chennai - 600 001

CSE	<b>NEWS</b> <b>RESEARCH CENTRE</b> The department is recognized as a Research Center for M.S. / Ph.D. by the ANNA UNIVERSITY. <b>AFFILIATION</b> The Department has PERMANENT AFFILIATION from ANNA UNIVERSITY. <b>AICTE-CII SURVEY</b> The department is Ranked 3rd in the AICTE-CII Survey conducted Nationwide for Industry Institute Interaction. <b>IIT BOMBAY REMOTE CENTER</b> The department acts as Remote Center for conducting Spoken Tutorials, workshops and certifications by IIT, BOMBAY in collaboration with ISTE and funded by MHRD <b>IBM CENTRE FOR EXCELLENCE</b> The department is credited with IBM Software Centre for Excellence and the lab is set for the same. We are also attributed to conduct International certifications by IBM trained faculty members.
<a href="#">Introduction</a>	
<a href="#">Opportunities</a>	
<a href="#">Faculty Members</a>	
<a href="#">Lab Facility</a>	
<a href="#">News</a>	

Create a HTML application with frames, links, tables and other tags that will provide information about the services provided in Veena Multi Specialty Hospital. State the assumptions you make (business logic you are taking into consideration).

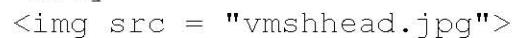
---

**PROGRAM:**

**HosMain.html**

```
<html>
<head>
<title>
VMSH
</title>
</head>
<frameset rows = "175,*" framespacing = "0">
<frame src = "HosTop.html" name = "top" scrolling = "no" />
<frameset cols = "175, *">
<frame src = "HosLeft.html" name = "left" scrolling = "no" />
<frame src = "HosRight.html" name = "right" />
</frameset>
</frameset>
</html>
```

**HosTop.html**

```
<html>
<head>
<title>
Top
</title>
</head>
<body>

<center>ABC Nagar, Chennai - 600 001</center>
</p>
</body>
</html>
```

### **HosLeft.html**

```
<html>
<head>
<title>
Links
</title>
</head>
<body>
<a href = "HosAbout.html" target = "right">About</a>
<br /><br />
<a href = "HosSpecialities.html"
    target = "right">Specialities</a>
<br /><br />
<a href = "HosDoctors.html" target = "right">Doctors</a>
<br /><br />
<a href = "HosCareers.html" target = "right">Careers</a>
<br /><br />
<a href = "HosContact.html" target = "right">Contact Us</a>
</body>
</html>
```

### **HosRight.html**

```
<html>
<head>
<title>
Home
</title>
</head>
<body>
<b>Welcome to the Veena Multi Speciality Hospital</b>
</body>
</html>
```

## **HosAbout.html**

```
<html>
<head>
<title>
About
</title>
</head>
<body>
<b>ABOUT VMSH</b>
<br /><br />
<p align = "justify">
Established in 1197 by Dr.B.Bhuvaneswaran, a General &
Laparoscopic Surgeon, Veena Multi Speciality Hospital began
its journey as a 15 bedded General and Gynaecology hospital.
Today, the hospital has reached the milestone of being a 50
bedded multi-speciality centre delivering quality service with
compassion as its core conviction.
</p>
<p align = "justify">
The hospital is located at Guindy, the heart of Chennai,
accessible from all locations in the city. Across each of the
25 specialities, care is offered through the best medical
professionals who are aided by advanced, state-of-the-art
infrastructure and equipments. At all times, the hospital, the
consultants and its staff are fully equipped to handle any
kind of emergency or critical care requirements.
</p>
<p align = "justify">
At Veena, we go beyond the doctor-patient relationship and
become your true healthcare partners.
</p>
<p align = "justify">
We present the best model for cure - medicine with a heart.
</p>
</body>
</html>
```

### **HosSpecialities.html**

```
<html>
<head><title>Specialities</title></head>
<body>
<b>MULTI-SPECIALITY SERVICES</b>
<br /><br />
<ul>
<li>General and Laparoscopic Surgery</li>
<li>Cardiology</li>
<li>Orthopaedics</li>
<li>Nephrology and Urology</li>
<li>Oncology</li>
<li>ENT</li>
</ul>
</body>
</html>
```

### **HosDoctors.html**

```
<html>
<head><title>Doctors</title></head>
<body>
<b>DOCTORS</b>
<br /><br />
<table border = "1">
<tr>
<th>No.</th><th>Name</th><th>Specialization</th>
</tr>
<tr>
<td>1</td><td>Dr.B.Bhuvaneswaran</td>
<td>General & Laparoscopic Surgeon</td>
</tr>
<tr>
<td>2</td><td>Dr.S.Chithra</td><td>Cardiologist</td>
</tr>
<tr>
<td>3</td><td>Dr.E.Uma</td><td>Nephrologist</td>
</tr>
<tr>
<td>4</td><td>Dr.V.Gnanaganesan</td><td>Anaesthesiologist</td>
</tr>
<tr>
<td>5</td>
<td>Dr.G.Ananthi</td>
<td>Orthopaedist</td>
</tr>
</table>
</body>
</html>
```

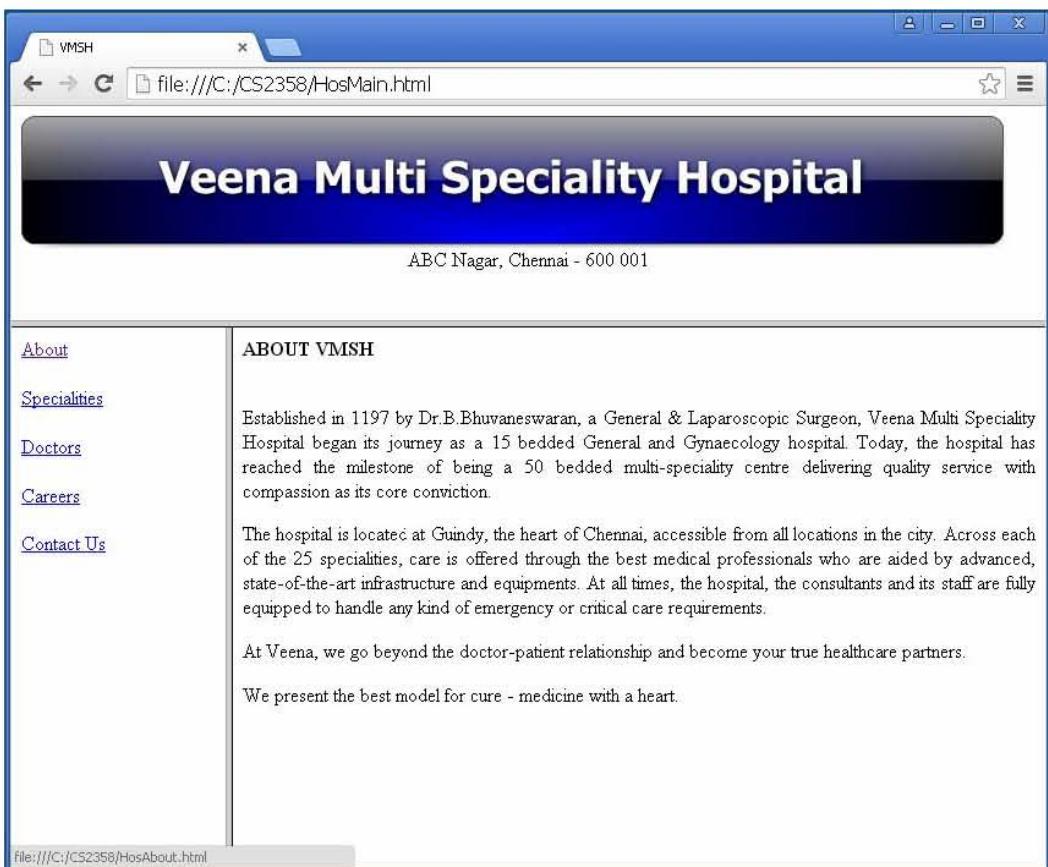
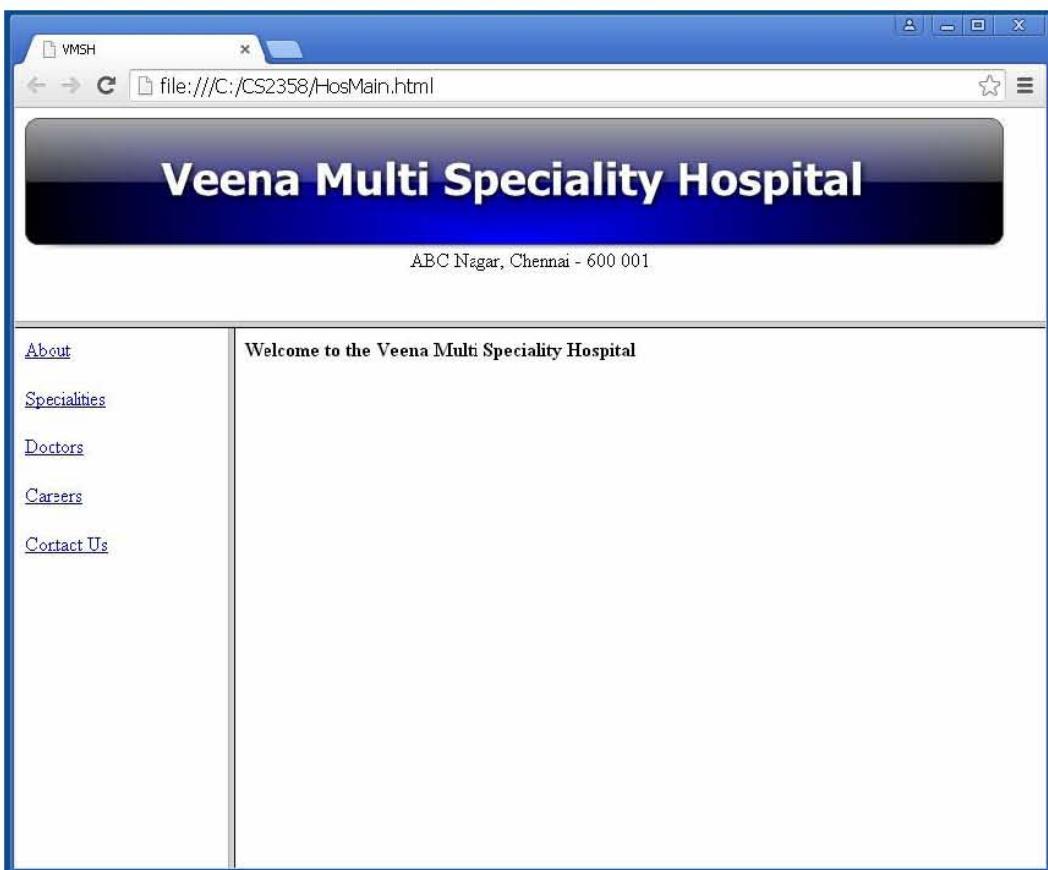
### **HosCareers.html**

```
<html>
<head>
<title>
Careers
</title>
</head>
<body>
<b>CAREERS</b>
<br /><br />
<b>Vacancies for Pharmacist and Lab Technician</b>
<p align = "justify">
Pharmacist (D.Pharm. / B.Pharm.) Lab Technician (D.M.L.T. from
D.M.E.) B.Sc., M.L.T., from recognized University. Interview
on 8th April 2015 at 10am.
</p>
<b>
Neonatology
</b>
<p align = "justify">
Junior Paediatricians to work shift duties as Registrars in
Neonatology. Qualifications : M.D. Pediatrics / D.C.H. /
D.N.B. preferably with Neonatal I.C.U. experience.
</p>
</body>
</html>
```

### **HosContact.html**

```
<html>
<head>
<title>
Contact
</title>
</head>
<body>
<b>CONTACT US</b>
<br /><br />
Veena Multi Speciality Hospital, ABC Nagar, Chennai - 600 001,
Mobile : +91 9791519152
</body>
</html>
```

**OUTPUT :**



**Veena Multi Speciality Hospital**

ABC Nagar, Chennai - 600 001

[About](#)  
[Specialities](#)  
[Doctors](#)  
[Careers](#)  
[Contact Us](#)

**MULTI-SPECIALITY SERVICES**

- General and Laparoscopic Surgery
- Cardiology
- Orthopaedics
- Nephrology and Urology
- Oncology
- ENT

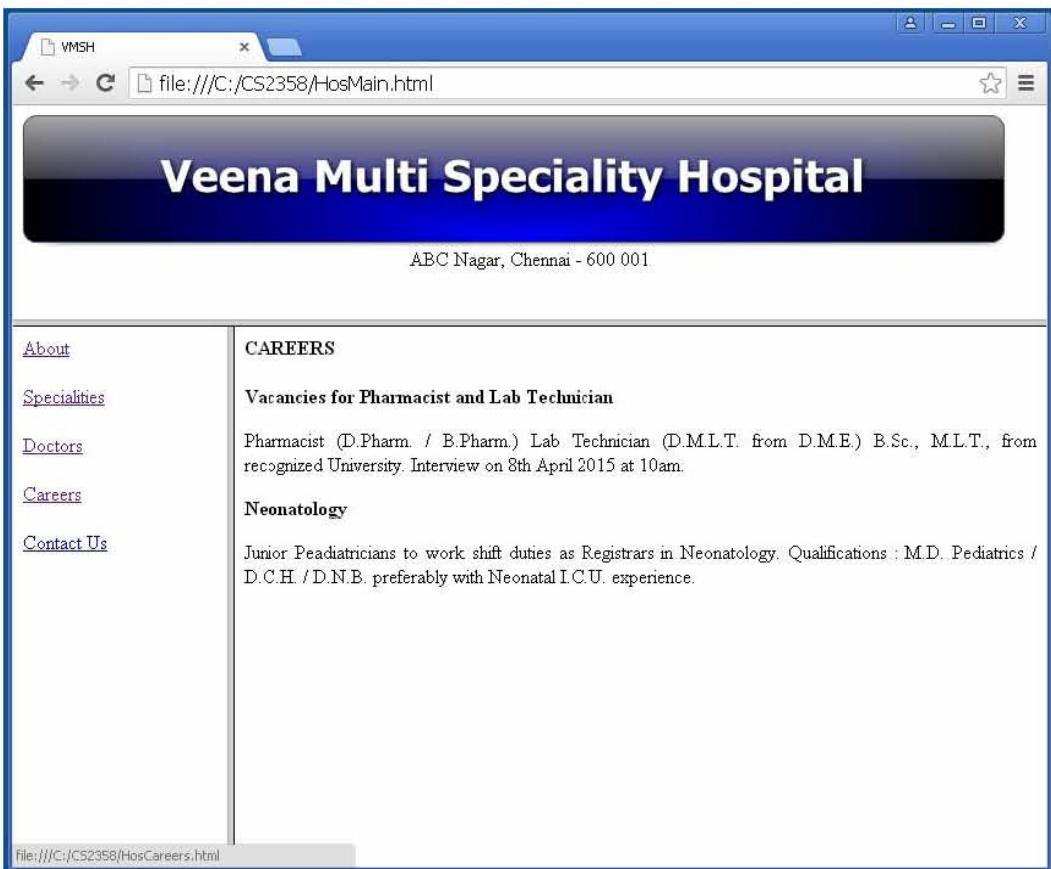
**Veena Multi Speciality Hospital**

ABC Nagar, Chennai - 600 001

[About](#)  
[Specialities](#)  
[Doctors](#)  
[Careers](#)  
[Contact Us](#)

**DOCTORS**

No.	Name	Specialization
1	Dr. B. Bhuvaneswaran	General & Laparoscopic Surgeon
2	Dr. S. Chithra	Cardiologist
3	Dr. E. Uma	Nephrologist
4	Dr. V. Gnanaganesan	Anaesthesiologist
5	Dr. G. Ananthi	Orthopaedist

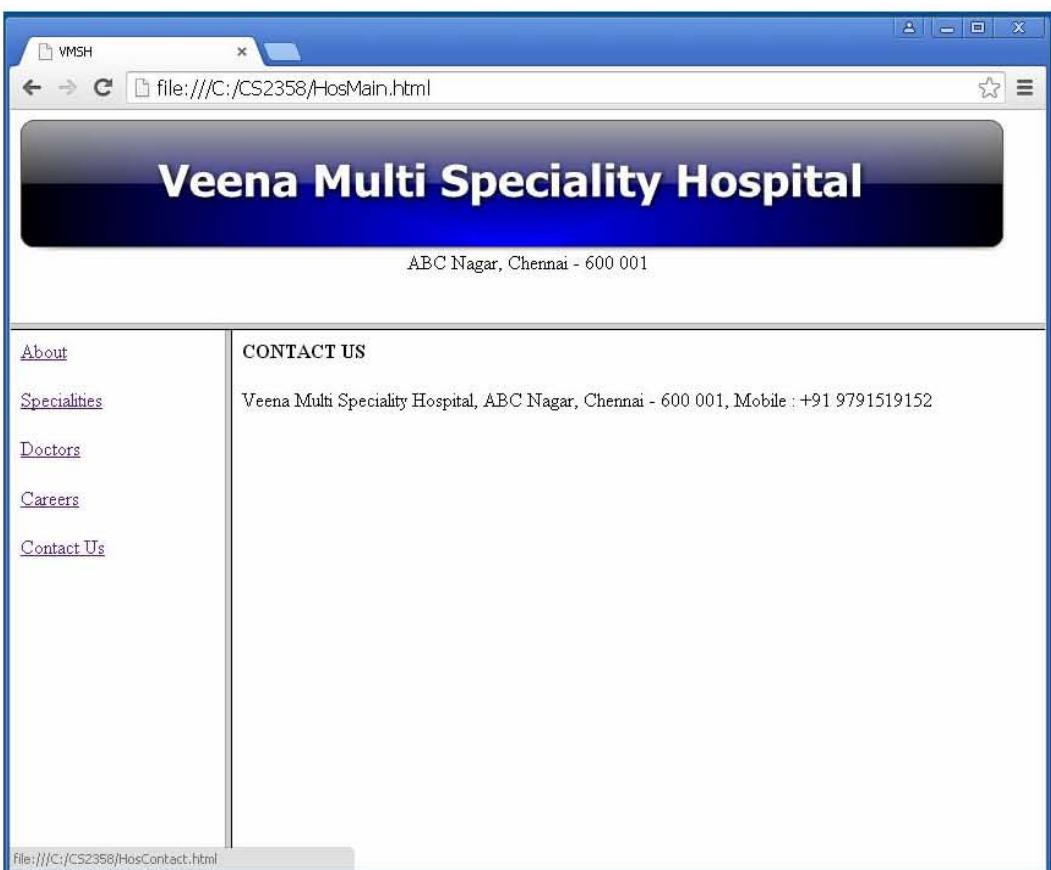
 VMSh file:///C:/CS2358/HosMain.html

# Veena Multi Speciality Hospital

ABC Nagar, Chennai - 600 001

<a href="#">About</a> <a href="#">Specialties</a> <a href="#">Doctors</a> <a href="#">Careers</a> <a href="#">Contact Us</a>	<p><b>CAREERS</b></p> <p><b>Vacancies for Pharmacist and Lab Technician</b></p> <p>Pharmacist (D.Pharm. / B.Pharm.) Lab Technician (D.M.L.T from D.M.E) B.Sc., M.L.T., from recognized University. Interview on 8th April 2015 at 10am.</p> <p><b>Neonatology</b></p> <p>Junior Pediatricians to work shift duties as Registrars in Neonatology. Qualifications : M.D. Pediatrics / D.C.H / D.N.B. preferably with Neonatal I.C.U. experience.</p>
--	--

file:///C:/CS2358/HosCareers.html

 VMSh file:///C:/CS2358/HosMain.html

# Veena Multi Speciality Hospital

ABC Nagar, Chennai - 600 001

<a href="#">About</a> <a href="#">Specialties</a> <a href="#">Doctors</a> <a href="#">Careers</a> <a href="#">Contact Us</a>	<p><b>CONTACT US</b></p> <p>Veena Multi Speciality Hospital, ABC Nagar, Chennai - 600 001, Mobile : +91 9791519152</p>
--	--

file:///C:/CS2358/HosContact.html

Create a web page containing details about the placement cell in your college using DHTML. Use at least five hyperlinks. Also embed images in the web page you are creating. Document the functional requirements you are considering.

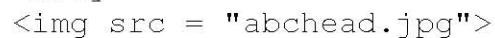
---

**PROGRAM:**

**PlaMain.html**

```
<html>
<head>
<title>
ABC-Placement
</title>
</head>
<frameset rows = "175,*" framespacing = "0">
<frame src = "PlaTop.html" name = "top" scrolling = "no" />
<frameset cols = "175, *">
<frame src = "PlaLeft.html" name = "left" scrolling = "no" />
<frame src = "PlaRight.html" name = "right" />
</frameset>
</frameset>
</html>
```

**PlaTop.html**

```
<html>
<head>
<title>
Top
</title>
</head>
<body>

<center>ABC Nagar, Chennai - 600 001</center>
</p>
</body>
</html>
```

**PlaLeft.html**

```
<html>
<head>
<title>
Links
</title>
</head>
<body>
<a href = "PlaObjective.html" target = "right">Objective</a>
<br /><br />
<a href = "PlaTraining.html" target = "right">
Trainings Offered
</a>
<br /><br />
<a href = "PlaRecord.html" target = "right">
Placement Record
</a>
<br /><br />
<a href = "PlaRecruiters.html" target = "right">
Recruiters
</a>
<br /><br />
<a href = "PlaContact.html" target = "right">
Contact Us
</a>
</body>
</html>
```

**PlaRight.html**

```
<html>
<head>
<title>
Home
</title>
</head>
<body>
<b>Welcome to the ABC Engineering College - Placement Page</b>
</body>
</html>
```

### **PlaObjective.html**

```
<html>
<head>
<title>
Objective
</title>
</head>
<body>
<b>OBJECTIVE</b>
<br />
<p align = "justify">
The objective of the Placement Centre is
<br /><br />
To provide job opportunities by bringing the companies for
campus recruitment to all the eligible students of final year.
<br />
To enhance current technical and practical knowledge of
students
<br />
To make the students 'PLUG & PLAY' by imparting soft skills
and employability skills.
<br />
To have strong Industry-Institute Interaction.
</p>
</body>
</html>
```

### **PlaTraining.html**

```
<html>
<head>
<title>
Training
</title>
</head>
<body>
<b>TRAINING PROGRAMMES</b>
<br />
<p align = "justify">
The Employability Training Camp is a unique one of a kind
value addition programme offered to our students from the
Second year onwards. This camp, which is run on a residential
mode is offered completely free of cost. It is a matter of
pride that this programme is one of the premier events in the
Institution and every student looks forward eagerly to be part
of this event.
</p>
</body>
</html>
```

### **PlaRecord.html**

```
<html>
<head>
<title>
Record
</title>
</head>
<body>
<b>PLACEMENT RECORD</b><br /><br />
2014 - 2015<br /><br />
No. of students placed: 723 as on 31.03.2015<br /><br />
2013 - 2014<br /><br />
No. of students placed: 544 as on 27.01.2015<br /><br />
2012 - 2013<br /><br />
No. of students placed: 510 as on 16.01.2014<br /><br />
2011 - 2012<br /><br />
No. of students placed: 841 as on 07.11.2012
</body>
</html>
```

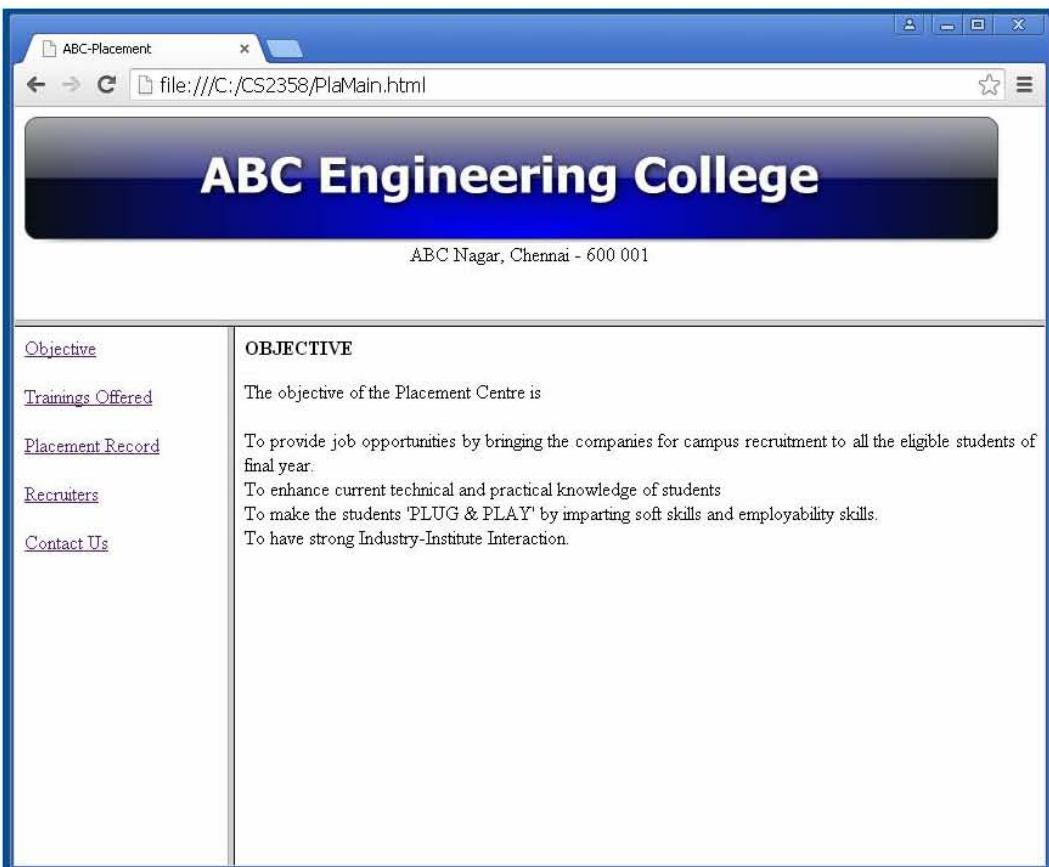
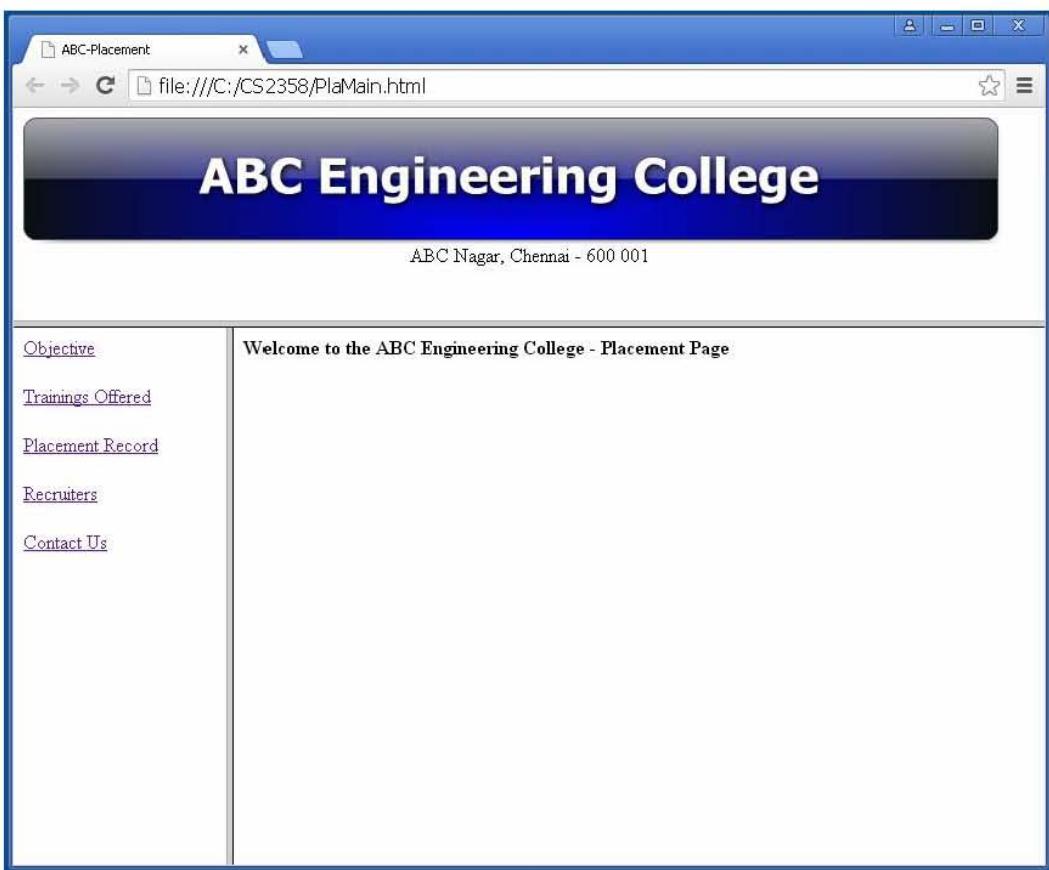
### **PlaRecruiters.html**

```
<html>
<head><title>Recruiters</title></head>
<body>
<b>RECRUITERS</b>
<br /><br />
Accenture
<br />
Ashok Leyland Ltd.
<br />
Bajaj Capital
<br />
Blue Star
<br />
FL Smidth
<br />
Flextronics
<br />
Foxconn
<br />
IBM
<br />
ICICI
<br />
Syntel
<br />
TATA Consultancy Services
</body>
</html>
```

**PlaContact.html**

```
<html>
<head>
<title>
Contact
</title>
</head>
<body>
<b>CONTACT US</b>
<br /><br />
Placement Cell, ABC Engineering College, ABC Nagar,
Chennai - 600 001, Mobile : +91 9791519152
</body>
</html>
```

**OUTPUT :**



ABC-Placement file:///C:/CS2358/PlaMain.html

# ABC Engineering College

ABC Nagar, Chennai - 600 001

<a href="#">Objective</a>	<b>TRAINING PROGRAMMES</b>
<a href="#">Trainings Offered</a>	The Employability Training Camp is a unique one of a kind value addition programme offered to our students from the Second year onwards. This camp, which is run on a residential mode is offered completely free of cost. It is a matter of pride that this programme is one of the premier events in the Institution and every student looks forward eagerly to be part of this event.
<a href="#">Placement Record</a>	
<a href="#">Recruiters</a>	
<a href="#">Contact Us</a>	

file:///C:/CS2358/PlaTraining.html

ABC-Placement file:///C:/CS2358/PlaMain.html

# ABC Engineering College

ABC Nagar, Chennai - 600 001

<a href="#">Objective</a>	<b>PLACEMENT RECORD</b>
<a href="#">Trainings Offered</a>	2014 - 2015
<a href="#">Placement Record</a>	No. of students placed: 723 as on 31.03.2015
<a href="#">Recruiters</a>	2013 - 2014
<a href="#">Contact Us</a>	No. of students placed: 544 as on 27.01.2015
	2012 - 2013
	No. of students placed: 510 as on 16.01.2014
	2011 - 2012
	No. of students placed: 841 as on 07.11.2012

file:///C:/CS2358/PlaRecord.html

ABC-Placement

file:///C:/CS2358/PlaMain.html

# ABC Engineering College

ABC Nagar, Chennai - 600 001

<a href="#">Objective</a>	<b>RECRUITERS</b>
<a href="#">Trainings Offered</a>	Accenture
<a href="#">Placement Record</a>	Ashok Leyland Ltd.
<a href="#">Recruiters</a>	Bajaj Capital
<a href="#">Contact Us</a>	Blue Star FL Smidt Flextronics Foxconn IBM ICICI Syntel TATA Consultancy Services

file:///C:/CS2358/PlaRecruiters.html

ABC-Placement

file:///C:/CS2358/PlaMain.html

# ABC Engineering College

ABC Nagar, Chennai - 600 001

<a href="#">Objective</a>	<b>CONTACT US</b>
<a href="#">Trainings Offered</a>	Placement Cell, ABC Engineering College, ABC Nagar, Chennai - 600 001, Mobile : +91 9791519152
<a href="#">Placement Record</a>	
<a href="#">Recruiters</a>	
<a href="#">Contact Us</a>	

Embed an image map picture(India map) on a Web page that provides different links to other Web pages(different states) and show the all the related information depending on where a user clicks on the image.

---

**PROGRAM:**

**ImageMap.html**

```
<html>
<head>
<title>Image Map</title>
</head>
<body>
<map id = "picture" name = "picture">
<area href = "TamilNadu.html" shape = "circle"
      coords = "170, 490, 30" alt = "Tamil Nadu" />
<area href = "Karnataka.html" shape = "rect"
      coords = "115, 390, 150, 450" alt = "Karnataka" />
<area href = "AndhraPradesh.html" shape = "poly"
      coords = "165, 355, 200, 355, 220, 380, 170, 425, 165,
              355" alt = "Andhra Pradesh" />
<area href = "Kerala.html" shape = "poly"
      coords = "115, 455, 160, 470, 140, 485, 150, 505, 150,
              530, 135, 500, 115, 455" alt = "Kerala" />
</map>
<img src = "India.jpg" alt = "India" usemap = "#picture" />
</body>
</html>
```

**TamilNadu.html**

```
<html>
<head><title>About Tamil Nadu</title></head>
<body>
<center><h1>Tamil Nadu</h1></center>
<hr />
<ul>
<li>Area : 1,30,058 Sq. Kms.</li>
<li>Capital : Chennai</li>
<li>Language : Tamil</li>
<li>Population : 6,21,10,839</li>
</ul>
</body>
</html>
```

### **AndhraPradesh.html**

```
<html>
<head><title>About Andhra Pradesh</title></head>
<body>
<center><h1>Andhra Pradesh</h1></center>
<hr />
<ul>
<li>Area : 2,75,068 Sq. Kms</li>
<li>Capital : Hyderabad</li>
<li>Language : Telugu</li>
<li>Population : 7,57,27,541</li>
</ul>
</body>
</html>
```

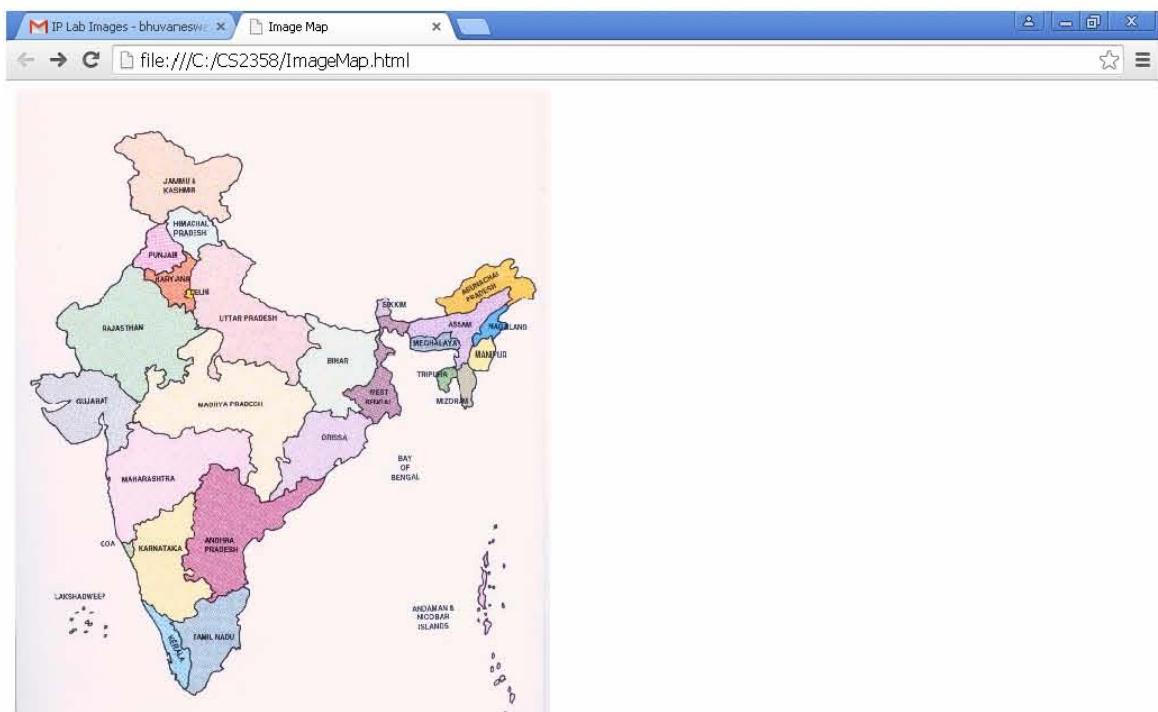
### **Kerala.html**

```
<html>
<head>
<title>About Kerala</title>
</head>
<body>
<center><h1>Kerala</h1></center>
<hr />
<ul>
<li>Area : 38,863 Sq. Kms.</li>
<li>Capital : Thiruvananthapuram</li>
<li>Language : Malayalam</li>
<li>Population : 3,18,38,619</li>
</ul>
</body>
</html>
```

### **Karnataka.html**

```
<html>
<head><title>About Karnataka</title></head>
<body>
<center><h1>Karnataka</h1></center>
<hr />
<ul>
<li>Area : 1,91,791 Sq. Kms</li>
<li>Capital : Bangalore</li>
<li>Language : Kannada</li>
<li>Population : 5,27,33,958</li>
</ul>
</body>
</html>
```

## OUTPUT:





## Andhra Pradesh

- Area : 2,75,068 Sq. Kms
- Capital : Hyderabad
- Language : Telugu
- Population : 7,57,27,541



## Kerala

- Area : 38,863 Sq. Kms.
- Capital : Thiruvananthapuram
- Language : Malayalam
- Population : 3,18,38,619





## Karnataka

- 
- Area : 1,91,791 Sq. Kms
  - Capital : Bangalore
  - Language : Kannada
  - Population : 5,27,33,958



Create an webpage to embed a human body image, identify and display all the related information about the human body parts (head, eye, nose, finger etc) based on the user clicks on the human body image map.

---

**PROGRAM:**

**FSHumanBody.html**

```
<html>
<head>
<title>
Frameset - Human Body
</title>
</head>
<frameset cols = "400, *">
<frame src = "fslhumanbody.html" name = "left" />
<frame src = "fsrhumanbody.html" name = "right" />
</frameset>
</html>
```

**FSLHumanBody.html**

```
<html>
<head>
<title>Human Body</title>
</head>
<body>
<h1 align = "center">Parts of a Human Body</h1>
<map id = "picture" name = "picture">
<area href = "Head.html" shape = "rect" target = "right"
coords = "155, 75, 190, 85" alt = "Head" />
<area href = "Eyes.html" shape = "rect" target = "right"
coords = "160, 90, 170, 100" alt = "Eye" />
<area href = "Eyes.html" shape = "rect" target = "right"
coords = "180, 90, 190, 100" alt = "Eye" />
<area href = "Nose.html" shape = "rect" target = "right"
coords = "170, 100, 180, 110" alt = "Nose" />
<area href = "Mouth.html" shape = "circle" target = "right"
coords = "175, 120, 5" alt = "Mouth" />
<area href = "Fingers.html" shape = "rect" target = "right"
coords = "75, 325, 110, 360" alt = "Fingers" />
<area href = "Fingers.html" shape = "rect" target = "right"
coords = "230, 315, 255, 350" alt = "Fingers" />
</map>
<img src = "Human.jpg" alt = "Human" usemap = "#picture" />
</body>
</html>
```

### **FSRHumanBody.html**

```
<html>
<head>
<title>Image Map</title>
</head>
<body>
<h1 align = "center">
Welcome to learn the Parts of a Human Body...
</h1>
</body>
</html>
```

### **Head.html**

```
<html>
<head>
<title>Head</title>
</head>
<body>
<h1 align = "center">Head</h1>
<p align = "justify">
The human head contains core elements of the nervous system -  

the brain and spinal column - and the beginning of the  

digestive system. It's also the center for interpersonal  

communication through listening, speaking, seeing, and facial.
</p>
</body>
</html>
```

### **Eyes.html**

```
<html>
<head>
<title>Eyes</title>
</head>
<body>
<h1 align = "center">Eyes</h1>
<p align = "justify">
The eye is a complex and amazing organ filled with nerves, a  

lens, liquid, and more. Not only does it give us the ability  

to see the world around us, but it also brings that world in  

color, in three dimensions, and even under low light.
</p>
</body>
</html>
```

**Nose.html**

```
<html>
<head>
<title>Nose</title>
</head>
<body>
<h1 align = "center">Nose</h1>
<p align = "justify">
The nose is the body's organ of smell and also functions as
part of the body's respiratory system. Air comes into the body
through the nose.
</p>
</body>
</html>
```

**Mouth.html**

```
<html>
<head>
<title>Mouth</title>
</head>
<body>
<h1 align = "center">Mouth</h1>
<p align = "justify">
The mouth is an orifice in the head. It contains teeth, the
tongue and the palate.
</p>
</body>
</html>
```

**Fingers.html**

```
<html>
<head>
<title>Fingers</title>
</head>
<body>
<h1 align = "center">Fingers</h1>
<p align = "justify">
Thumb, pointer finger, middle finger, index finger, pinky
finger.
</p>
</body>
</html>
```

**OUTPUT:**

Frameset - Human Body

file:///C:/CS2358/FSHumanBody.html

**Parts of a Human Body**



**Welcome to learn Human Body...**

Frameset - Human Body

file:///C:/CS2358/FSHumanBody.html

**Parts of a Human Body**



**Head**

The human head contains core elements of the nervous system - the brain and spinal column - and the beginning of the digestive system. It's also the center for interpersonal communication through listening, speaking, seeing, and facial.

file:///C:/CS2358/Head.html

Frameset - Human Body

file:///C:/CS2358/FSHumanBody.html

## Parts of a Human Body



## Eyes

The eye is a complex and amazing organ filled with nerves, a lens, liquid, and more. Not only does it give us the ability to see the world around us, but it also brings that world in color, in three dimensions, and even under low light.

Frameset - Human Body

file:///C:/CS2358/FSHumanBody.html

## Parts of a Human Body



## Nose

The nose is the body's organ of smell and also functions as part of the body's respiratory system. Air comes into the body through the nose.

Frameset - Human Body

file:///C:/CS2358/FSHumanBody.html

## Parts of a Human Body



## Mouth

The mouth is an orifice in the head. It contains teeth, the tongue and the palate.

Frameset - Human Body

file:///C:/CS2358/FSHumanBody.html

## Parts of a Human Body



## Fingers

Thumb, pointer finger, middle finger, index finger, pinky finger.

Add an embedded style sheet to the html document that represent hotel menu items. The style sheet should contain the rules for displaying all non vegetarian menu items in {color:red; font-size:smaller; font-weight:bold} and vegetarian menu items in {color:green; font-size:larger}.

---

**PROGRAM:**

**Hotel.html**

```
<html>
<head>
<title>Food Menu Items</title>
<style type="text/css">
#nonveg
{
    color:red;
    font-size:smaller;
    font-weight:bold
}

#veg
{
    color:green;
    font-size:larger
}
</style>
</head>
<body>


<br /><br /><br />
<hr />
<h1 align="center">FOOD MENU ITEMS</h1>
<hr />

<b>WOW</b>
<ul>
<li id="nonveg">Chicken Snacker</li>
<li id="veg">Potato Krisper</li>
<li id="veg">Kold Koffee</li>
<li id="veg">KFC Krushers Lime Soda</li>
</ul>
```

```
<b>SNACKS</b>
<ul>
<li id="nonveg">Hot Wings 5 pc</li>
<li id="nonveg">Popcorn Chicken</li>
<li id="nonveg">Boneless Strips</li>
<li id="veg">Veg Strips 6 pc</li>
<li id="veg">Large Fries</li>
<li id="veg">Medium Fries</li>
</ul>

<b>BURGERS</b>
<ul>
<li id="nonveg">Chicken Zinger</li>
<li id="veg">Paneer Zinger</li>
<li id="veg">Veg Rockin Burger</li>
<li id="nonveg">Chicken Rockin Burger</li>
</ul>
<hr />

</body>
</html>
```

## OUTPUT:

The screenshot shows a web browser window with the title "Food Menu Items". The address bar displays "file:///C:/CS2358/Aotel.html". The page features the KFC logo with a portrait of Colonel Sanders and the text "KFC SO". A yellow "ORDER ONLINE" button with the text "\* select stores only" and a small graphic is visible. The main content area is titled "FOOD MENU ITEMS" and contains sections for "WOW", "SNACKS", and "BURGERS", each listing various food items.

**WOW**

- Chicken Snacker
- Potato Krisper
- Kold Koffee
- KFC Krushers Lime Soda

**SNACKS**

- Hot Wings 5 pc
- Popcorn Chicken
- Benelus Strips
- Veg Strips 6 pc
- Large Fries
- Medium Fries

**BURGERS**

- Chicken Zinger
- Paneer Zinger
- Veg Rockin Burger
- Chicken Rockin Burger

Create external style sheet using different subset of the style rules with the following specification:

```
body{font-family:arial, Helvetica, sans-serif}
li {font-weight:bold}
h1{text-decoration:underline}
ul{margin-left:20px}
```

Then write a complete html document to apply all the above rules to the suitable application domain.

---

**PROGRAM:**

**Courses.html**

```
<html>
<head><title>Courses</title>
<link rel = "stylesheet" type = "text/css"
href = "colstyles.css" />
</head>
<body>
<img src = "abchead.jpg" /><br />
<b>A.B.C. Nagar, Chennai - 600 001</b><hr />
<h1>COURSES OFFERED</h1>
<h2>Under Graduate Courses</h2>
<ul>
<li>B.E. Computer Science & Engineering</li>
<li>B.E. Electronics & Communication Engineering</li>
<li>B.E. Mechanical Engineering</li>
<li>B.E. Electrical & Electronics Engineering</li>
<li>B.E. Aeronautical Engineering</li>
<li>B.E. Bio-Medical Engineering</li>
<li>B.E. Automobile Engineering</li>
<li>B.Tech. Information Technology</li>
<li>B.Tech. Bio Technology</li>
<li>B.E. Civil Engineering</li>
<li>B.Arch (Approved by Council of Architecture)</li>
</ul>
<h2>Post Graduate Courses</h2>
<ul>
<li>M.E. Engineering Design</li>
<li>M.E. Computer Science & Engineering</li>
<li>M.E. Software Engineering</li>
<li>M.E. Communication Systems</li>
<li>M.E. Power Electronics & Drives</li>
<li>M.E. Embedded Systems</li>
<li>M.E. Medical Electronics</li>
<li>M.Tech. Bio-Technology</li>
<li>M.B.A. Master of Business Administration (2 years)</li>
<li>M.C.A. Master of Computer Applications (3 years)</li>
</ul>
</body>
</html>
```

**colstyles.css**

```
body
{
    font-family:arial, Helvetica, sans-serif
}

h1
{
    text-decoration:underline
}

ul
{
    margin-left:20px
}

li
{
    font-weight:bold
}
```

## OUTPUT :

A.B.C. Nagar, Chennai - 600 001

### COURSES OFFERED

**Under Graduate Courses**

- B.E. Computer Science & Engineering
- B.E. Electronics & Communication Engineering
- B.E. Mechanical Engineering
- B.E. Electrical & Electronics Engineering
- B.E. Aeronautical Engineering
- B.E. Bio-Medical Engineering
- B.E. Automobile Engineering
- B.Tech. Information Technology
- B.Tech. Bio Technology
- B.E. Civil Engineering
- B.Arch (Approved by Council of Architecture)

**Post Graduate Courses**

- M.E. Engineering Design
- M.E. Computer Science & Engineering
- M.E. Software Engineering
- M.E. Communication Systems
- M.E. Power Electronics & Drives
- M.E. Embedded Systems
- M.E. Medical Electronics
- M.Tech. Bio-Technology
- M.B.A. Master of Business Administration (2 years)
- M.C.A. Master of Computer Applications (3 years)

Create a web page using cascading style sheets for an Automobile Company which markets and sells cars. Use at least five hyperlinks. Also embed images in the web page you are creating. Document the functional requirements you are considering.

---

**PROGRAM:**

**AutoMain.html**

```
<html>
<head>
<title>
IJK Aotomobiles
</title>
</head>
<frameset rows = "175,*" framespacing = "0">
<frame src = "AutoTop.html" name = "top" scrolling = "no" />
<frameset cols = "175, *">
<frame src = "AutoLeft.html" name = "left" scrolling = "no" />
<frame src = "AutoRight.html" name = "right" />
</frameset>
</frameset>
</html>
```

**AutoTop.html**

```
<html>
<head>
<title>
Top
</title>
</head>
<body>
<img src = "ijkhead.jpg">
<p style = "font-size:15pt; color:#0000ff">
ABC Nagar, Chennai - 600 001
</p>
</body>
</html>
```

**AutoLeft.html**

```
<html>
<head>
<title>
Links
</title>
<style type = "text/css">
body
{
    background-color:#336699
}
a
{
    text-decoration:none;
}
a:hover
{
    text-decoration:underline;
    background-color:#ffffff
}
</style>
</head>

<body>
<a href = "AutoAbout.html" target = "right">About Us</a>
<br><br>
<a href = "AutoVision.html" target = "right">Vision</a>
<br><br>
<a href = "AutoMission.html" target = "right">Mission</a>
<br><br>
<a href = "AutoEnquiry.html" target = "right">Enquiry</a>
<br><br>
<a href = "AutoContact.html" target = "right">Contact Us</a>
</body>
</html>
```

**AutoRight.html**

```
<html>
<head>
<title>
Welcome
</title>
</head>
<body>
<b>Welcome to the IJK Cars Private Limited - Home Page</b>
</body>
</html>
```

## **AutoAbout.html**

```
<html>
<head>
<title>
About
</title>
<link rel = "stylesheet" type = "text/css"
      href = "autostyles.css">
</head>
<body>
<b class = "special">ABOUT THE IJK</b>
<br />
<p align = "justify">
IJK Cars Pvt. Ltd. is a strong automobile marketing
enterprise. This venture is part of a larger 25 years old
group of organizations which has interests in
<br>
Education
<br />
Infrastructure
<br />
Automobile Marketing
</p>
</body>
</html>
```

**AutoVision.html**

```
<html>
<head>
<title>
Vision
</title>
<link rel = "stylesheet" type = "text/css"
      href = "autostyles.css">
</head>
<body>
<b class = "special">VISION</b>
<br />
<p align = "justify">
IJKCPL believes that our businesses should play a major role
in supporting the communities in which they operate. Every
business has a responsibility to contribute to the well-being
of its people, their families and the society in which it
operates - in short, put something back into the community.
</p>
</body>
</html>
```

**AutoMission.html**

```
<html>
<head>
<title>
Mission
</title>
<link rel = "stylesheet" type = "text/css"
      href = "autostyles.css">
</head>
<body>
<b class = "special">MISSION</b>
<br />
<p align = "justify">
IJKCPL is committed to serve the communities where we do
business, to provide our customers with innovative, high-
quality products and services and to protect the health of our
workers and our environment, through ethical business
practices and good governance.
</p>
</body>
</html>
```

### **AutoEnquiry.html**

```
<html>
<head>
<title>Enquiry</title>
<link rel = "stylesheet" type = "text/css"
      href = "autostyles.css">
</head>
<body>
<b class = "special">CAR ENQUIRY FORM</b>
<br>
<p align = "justify">
<form method="post" action="registration.jsp">
First Name :
<input type="textbox" name="fname" size="30">
<br /><br />
Last Name :
<input type="textbox" name="lname" size="30">
<br /><br />
Gender :
<input type="radio" name="gender" value="Male">
Male
<input type="radio" name="gender" value="Female">
Female
<br /><br />
Email Id :
<input type="textbox" name="email" size="100">
<br /><br />
Mobile No. :
<input type="textbox" name="mobile" size="30" maxlength="10">
<br /><br />
Car :
<select name="car">
<option value="SWIFT">SWIFT</option>
<option value="A-STAR">A-STAR</option>
<option value="ESTILO">ESTILO</option>
</select>
<br /><br />
<input type="checkbox" name="agree" value="agree">
I Agree
<textarea>I agree to the IJKCPL Terms of Service and Privacy
Policy
</textarea>
<br /><br />
<input type="submit" value="Submit My Enquiry">
<input type="reset" value="Clear">
</form>
</p>
</body>
</html>
```

**AutoContact.html**

```
<html>
<head>
<title>
Contact
</title>
<link rel = "stylesheet" type = "text/css"
      href = "autostyles.css">
</head>
<body>
<b class = "special">CONTACT US</b>
<br />
<p align = "justify">
Manager, IJK Cars Private Limited, A.B.C. Nagar,
Chennai - 600 001
</p>
</body>
</html>
```

**autostyles.css**

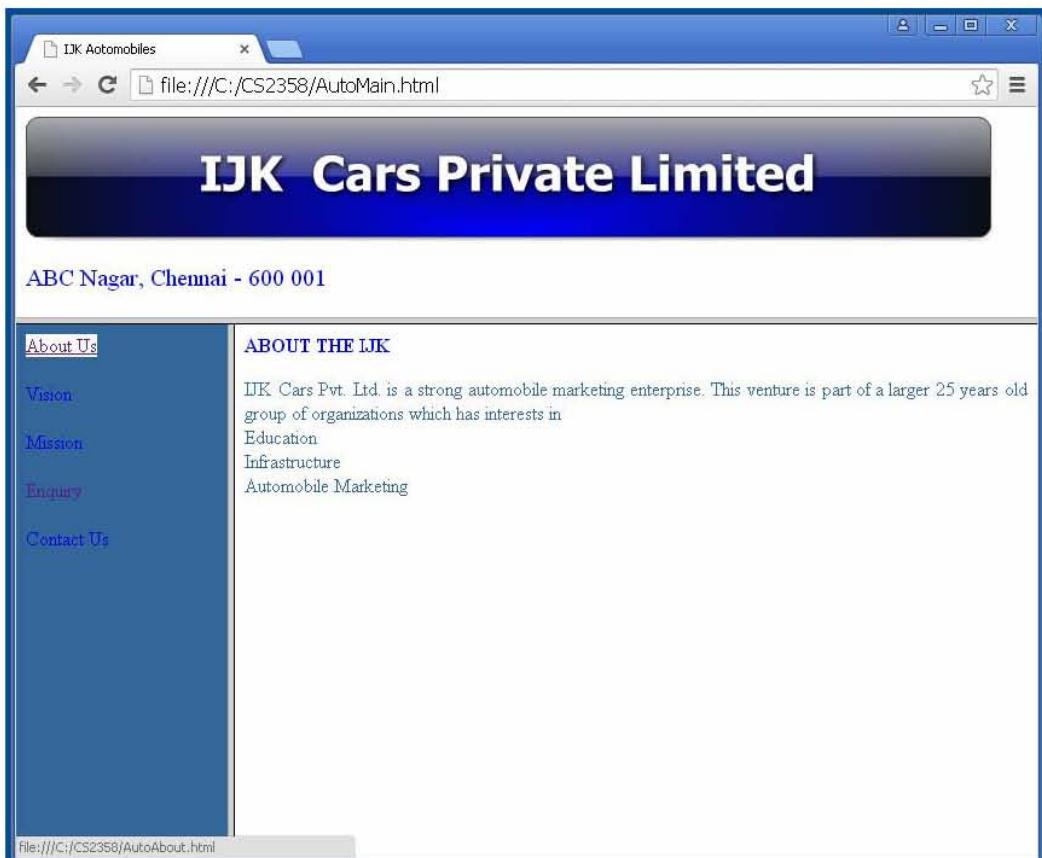
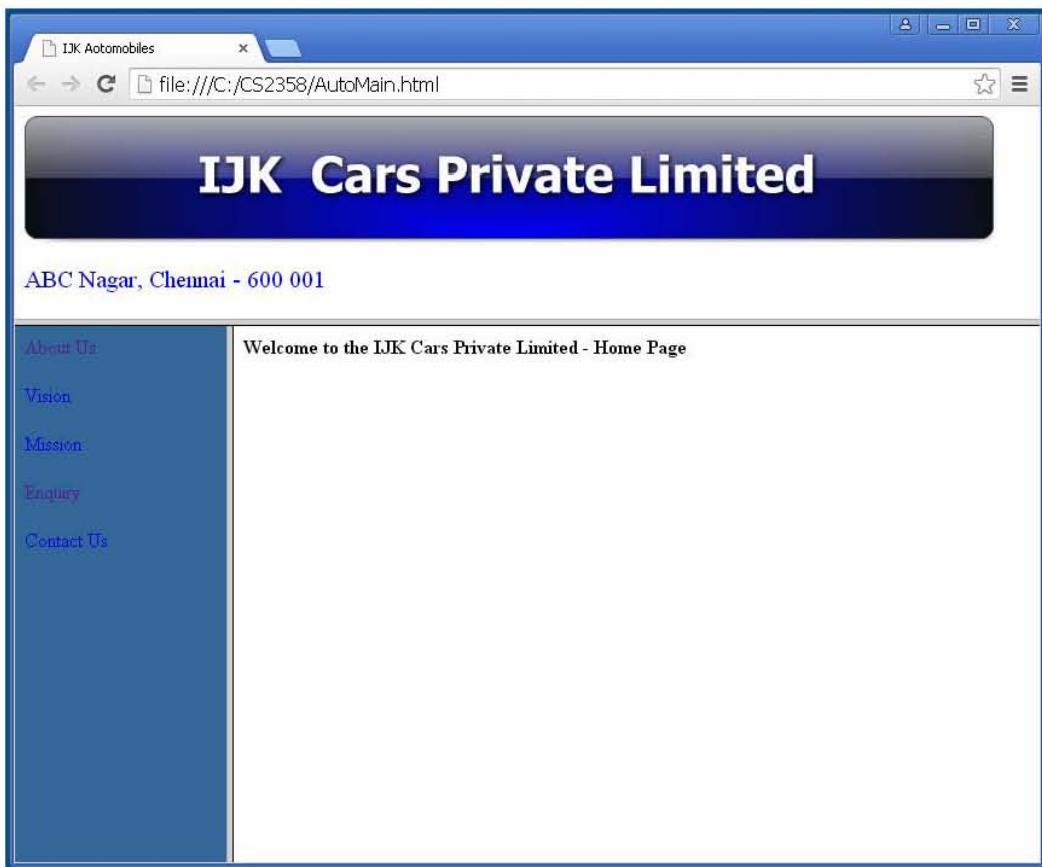
```
/* An external stylesheet */
```

```
p
{
    font-size:12pt;
    color:#336699
}

table
{
    background-color:silver
}

.special
{
    color:blue
}
```

**OUTPUT:**



**IJK Cars Private Limited**

ABC Nagar, Chennai - 600 001

<a href="#">About Us</a>	<b>VISION</b> IJKCPL believes that our businesses should play a major role in supporting the communities in which they operate. Every business has a responsibility to contribute to the well-being of its people, their families and the society in which it operates – in short, put something back into the community.
<a href="#">Vision</a>	
<a href="#">Mission</a>	
<a href="#">Enquiry</a>	
<a href="#">Contact Us</a>	

file:///C:/CS2358/AutoVision.html

**IJK Cars Private Limited**

ABC Nagar, Chennai - 600 001

<a href="#">About Us</a>	<b>MISSION</b> IJKCPL is committed to serve the communities where we do business, to provide our customers with innovative, high-quality products and services and to protect the health of our workers and our environment, through ethical business practices and good governance.
<a href="#">Vision</a>	
<a href="#">Mission</a>	
<a href="#">Enquiry</a>	
<a href="#">Contact Us</a>	

file:///C:/CS2358/AutoMission.html

IJK Automobiles file:///C:/CS2358/AutoMain.html

# IJK Cars Private Limited

ABC Nagar, Chennai - 600 001

<a href="#">About Us</a>	<b>CAR ENQUIRY FORM</b>
<a href="#">Vision</a>	First Name : <input type="text"/>
<a href="#">Mission</a>	Last Name : <input type="text"/>
<a href="#">Enquiry</a>	Gender : <input checked="" type="radio"/> Male <input type="radio"/> Female
<a href="#">Contact Us</a>	Email Id : <input type="text"/>
	Mobile No. : <input type="text"/>
	Car : SWIFT <input type="button" value="▼"/>
	<input type="checkbox"/> I agree to the <input type="checkbox"/> I Agree IJKPL Terms of <input type="button" value="▼"/>
	<input type="button" value="Submit My Enquiry"/> <input type="button" value="Clear"/>

file:///C:/CS2358/AutoEnquiry.html

IJK Automobiles file:///C:/CS2358/AutoMain.html

# IJK Cars Private Limited

ABC Nagar, Chennai - 600 001

<a href="#">About Us</a>	<b>CONTACT US</b>
<a href="#">Vision</a>	Manager, IJK Cars Private Limited, A.B.C. Nagar, Chennai - 600 001
<a href="#">Mission</a>	
<a href="#">Enquiry</a>	
<a href="#">Contact Us</a>	

file:///C:/CS2358/AutoContact.html

Create an XML to represent the BOOKS catalog that has the following elements (TITLE, ISBN NO, AUTHOR, PUBLISHER, PRICE). Display the book details styled with XSLT.

---

**PROGRAM:**

**catalog.xml**

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="catalog.xsl"?>

<catalog>

<book>
    <title>Programming in ANSI C</title>
    <isbn>1259004619</isbn>
    <author>E.Balaguruswamy</author>
    <publisher>McGraw Hill</publisher>
    <price>150</price>
</book>

<book>
    <title>Java - The Complete Reference</title>
    <isbn>9339212096</isbn>
    <author>Herbert Schildt</author>
    <publisher>McGraw Hill</publisher>
    <price>612</price>
</book>

<book>
    <title>Web Technologies</title>
    <isbn>8131717151</isbn>
    <author>Jackson</author>
    <publisher>Pearson India</publisher>
    <price>435</price>
</book>

</catalog>
```

**catalog.xsl**

```
<?xml version="1.0" encoding="UTF-8"?>

<html xsl:version="1.0"
      xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

<body style="background-color:#EEEEEE">

<xsl:for-each select="catalog/book">

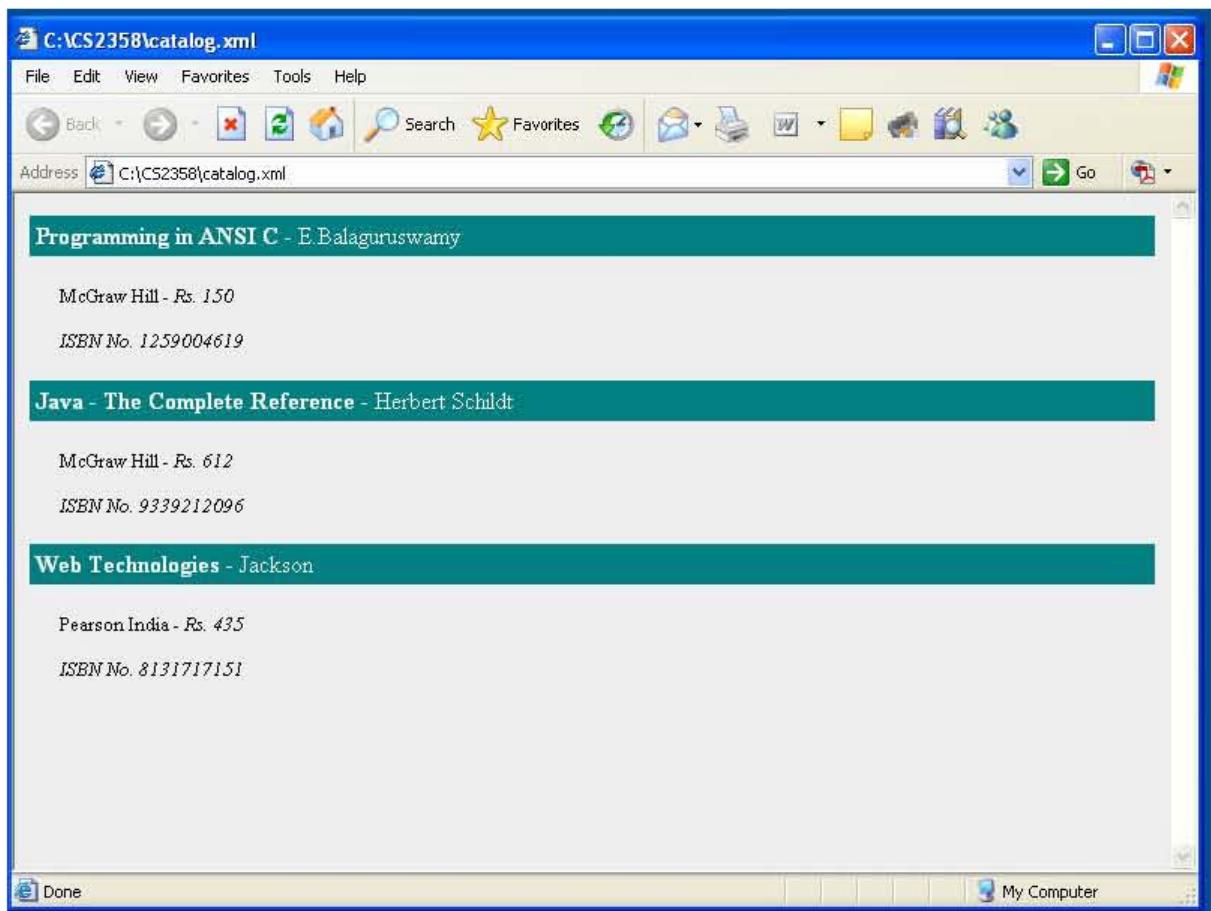
<div style="background-color:teal;color:white;padding:4px">
<span style="font-weight:bold">
<xsl:value-of select="title" /> -
</span>
<xsl:value-of select="author" />
</div>

<div style="margin-left:20px;margin-bottom:1em;
            font-size:10pt">
<p>
<xsl:value-of select="publisher" />
<span style="font-style:italic"> -
Rs. <xsl:value-of select="price"/> <br /><br />
ISBN No. <xsl:value-of select="isbn"/>
</span>
</p>
</div>

</xsl:for-each>

</body>
</html>
```

**OUTPUT:**



Create an Extensible mark up language to represent the students mark information of a class. Create a webpage to display all the students consolidated mark statement with pass (green color) or fail (red color) using XSLT.

---

**PROGRAM:**

**students.xml**

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="students.xsl" ?>

<college>
<student>
    <rollno>201201001</rollno>
    <name>Arun</name>
    <result>
        <subject>Web Technology</subject>
        <marks>85</marks>
    </result>
    <result>
        <subject>Internet Programming Lab</subject>
        <marks>100</marks>
    </result>
</student>
<student>
    <rollno>201201002</rollno>
    <name>Bhuvan</name>
    <result>
        <subject>Web Technology</subject>
        <marks>95</marks>
    </result>
    <result>
        <subject>Internet Programming Lab</subject>
        <marks>100</marks>
    </result>
</student>
<student>
    <rollno>201201003</rollno>
    <name>Chithra</name>
    <result>
        <subject>Web Technology</subject>
        <marks>45</marks>
    </result>
    <result>
        <subject>Internet Programming Lab</subject>
        <marks>70</marks>
    </result>
</student>
</college>
```

**students.xsl**

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
<html>
<body>
<h2>A.B.C. Engineering College</h2>
<h3>Consolidated Mark Statement</h3>

<xsl:for-each select="college/student">
Roll No. :
<xsl:value-of select="rollno" />
Name :
<xsl:value-of select="name" />

<table border="1">
<tr bgcolor="#ffff00">
    <th>Subject Name</th>
    <th>Marks</th>
</tr>

<xsl:for-each select="result">

<xsl:if test="marks < 50">
<tr bgcolor="#ff0000">
    <td><xsl:value-of select="subject"/></td>
    <td><xsl:value-of select="marks"/></td>
</tr>
</xsl:if>

<xsl:if test="marks > 49">
<tr bgcolor="#00ff00">
    <td><xsl:value-of select="subject" /></td>
    <td><xsl:value-of select="marks" /></td>
</tr>
</xsl:if>
</xsl:for-each>

</table>
</xsl:for-each>
</body>
</html>
</xsl:template>
</xsl:stylesheet>
```

**OUTPUT:**

The screenshot shows a Microsoft Internet Explorer window with the title bar "C:\Documents and Settings\bhuvan\Desktop\students.xml". The address bar also displays "C:\Documents and Settings\bhuvan\Desktop\students.xml". The page content is as follows:

**A.B.C. Engineering College**

**Consolidated Mark Statement**

Roll No. : 201201001 Name : Arun

Subject Name	Marks
Web Technology	85
Internet Programming Lab	100

Roll No. : 201201002 Name : Bhuvan

Subject Name	Marks
Web Technology	95
Internet Programming Lab	100

Roll No. : 201201003 Name : Chithra

Subject Name	Marks
Web Technology	45
Internet Programming Lab	70

**Create a program in Java using sockets to implement the HTTP request.**

---

**PROGRAM:**

**HTTPRequest.java**

```
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.io.OutputStream;
import java.io.PrintWriter;
import java.net.Socket;

public class HTTPRequest
{
    public static void main(String[] args)
    {
        String host = "www.rajalakshmi.org";
        try
        {
            Socket socket = new Socket(host, 80);
            OutputStream os = socket.getOutputStream();
            boolean autoflush = true;
            PrintWriter out = new
                PrintWriter(socket.getOutputStream(), autoflush);
            BufferedReader in = new
                BufferedReader(new
                    InputStreamReader(socket.getInputStream()));
            // send an HTTP request to the web server
            out.println("GET / HTTP/1.1");
            out.println("Host: " + host + ":80");
            out.println("Connection: Close");
            out.println();

            // read the response
            boolean loop = true;
            StringBuilder sb = new StringBuilder(8096);
            while (loop)
            {
                if (in.ready())
                {
                    int i = 0;
                    while (i != -1)
                    {
                        i = in.read();
                        sb.append((char) i);
                    }
                    loop = false;
                }
            }
        }
    }
}
```

```
        // display the response to the out console
        System.out.println(sb.toString());
        socket.close();
    }
    catch (IOException e)
    {
        e.printStackTrace();
    }
}
```

**OUTPUT :**

C:\IPLAB>javac HTTPRequest.java

C:\IPLAB>java HTTPRequest

```
HTTP/1.1 200 OK
Content-Length: 40514
Content-Type: text/html
Content-Location: http://www.rajalakshmi.org:80/index.html
Last-Modified: Fri, 25 Sep 2015 10:15:25 GMT
Accept-Ranges: bytes
ETag: "5f7611187bf7d01:400e"
Server: Microsoft-IIS/6.0
X-Powered-By: ASP.NET
Date: Fri, 02 Oct 2015 07:55:40 GMT
Connection: close
```

```
<!doctype html>
<html dir="ltr" lang="en-US">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>

    .
    .
    .

</head>

<body>

    .
    .
    .

</body>
</html>
```

C:\IPLAB>

Create a program in Java using sockets to implement the FTP server and client.

---

**PROGRAM:**

**FileServer.java**

```
import java.net.*;
import java.io.*;

public class FileServer {
    public static void main(String [] args) throws IOException {
        ServerSocket servsock = new ServerSocket(13267);
        while (true) {
            System.out.println("Waiting...");
            Socket sock = servsock.accept();
            System.out.println("Accepted connection : " + sock);
            File myFile = new File ("source.txt");
            byte [] mybytearray = new byte [(int)myFile.length()];
            FileInputStream fis = new FileInputStream(myFile);
            BufferedInputStream bis = new BufferedInputStream(fis);
            bis.read(mybytearray,0,mybytearray.length);
            OutputStream os = sock.getOutputStream();
            System.out.println("Sending...");
            os.write(mybytearray,0,mybytearray.length);
            os.flush();
            sock.close();
        }
    }
}
```

**FileClient.java**

```
import java.net.*;
import java.io.*;

public class FileClient{
public static void main(String [] args) throws IOException {
    int filesize=6022386;
    long start = System.currentTimeMillis();
    int bytesRead;
    int current = 0;
    Socket sock = new Socket("127.0.0.1",13267);
    System.out.println("Connecting...");
    byte [] mybytearray = new byte [filesize];
    InputStream is = sock.getInputStream();
    FileOutputStream fos=new FileOutputStream("target.txt");
    BufferedOutputStream bos = new BufferedOutputStream(fos);
    bytesRead = is.read(mybytearray,0,mybytearray.length);
    current = bytesRead;
    do
    {
        bytesRead = is.read(mybytearray, current,
            mybytearray.length-current);
        if(bytesRead >= 0)
            current += bytesRead;
    } while(bytesRead > -1);
    bos.write(mybytearray, 0 , current);
    bos.flush();
    long end = System.currentTimeMillis();
    System.out.println(end-start);
    bos.close();
    sock.close();
}
}
```

**OUTPUT:****DOS:**

```
C:\IPLAB>copy con source.txt
FTP - Using Socket...!
^Z
```

**SERVER: (Terminal - 1)**

```
C:\IPLAB>javac FileServer.java

C:\IPLAB>java FileServer
Waiting...
Accepted connection :
Socket[addr=/127.0.0.1,port=2973,localport=13267]
Sending...
Waiting...
^C
```

```
C:\IPLAB>
```

**CLIENT: (Terminal - 2)**

```
C:\IPLAB>javac FileClient.java

C:\IPLAB>java FileClient
Connecting...
31

C:\IPLAB>
```

**DOS:**

```
C:\IPLAB>type source.txt
FTP - Using Socket...!

C:\IPLAB>type target.txt
FTP - Using Socket...!

C:\IPLAB>
```

**Create a program in Java for creating simple chat application with datagram sockets and datagram packets.**

---

**PROGRAM:**

**UDPServer.java**

```
import java.io.*;
import java.net.*;

class UDPServer
{
    public static DatagramSocket serversocket;
    public static DatagramPacket dp;
    public static BufferedReader dis;
    public static InetAddress ia;
    public static byte buf[] = new byte[1024];
    public static int cport = 789, sport=790;

    public static void main(String[] a) throws IOException
    {
        serversocket = new DatagramSocket(sport);
        dp = new DatagramPacket(buf,buf.length);
        dis = new BufferedReader
            (new InputStreamReader(System.in));
        ia = InetAddress.getLocalHost();
        System.out.println("Server is Running...");

        while(true)
        {
            serversocket.receive(dp);
            String str = new String(dp.getData(), 0,
                dp.getLength());
            if(str.equals("STOP"))
            {
                System.out.println("Terminated...");
                break;
            }
            System.out.println("Client: " + str);
            String str1 = new String(dis.readLine());
            buf = str1.getBytes();
            serversocket.send(new
                DatagramPacket(buf,str1.length(), ia, cport));
        }
    }
}
```

**UDPClient.java**

```
import java.io.*;
import java.net.*;

class UDPClient
{
    public static DatagramSocket clientsocket;
    public static DatagramPacket dp;
    public static BufferedReader dis;
    public static InetAddress ia;
    public static byte buf[] = new byte[1024];
    public static int cport = 789, sport = 790;

    public static void main(String[] a) throws IOException
    {
        clientsocket = new DatagramSocket(cport);
        dp = new DatagramPacket(buf, buf.length());
        dis = new BufferedReader
            (new InputStreamReader(System.in));
        ia = InetAddress.getLocalHost();
        System.out.println("Client is Running...
                           Type 'STOP' to Quit");

        while(true)
        {
            String str = new String(dis.readLine());
            buf = str.getBytes();
            if(str.equals("STOP"))
            {
                System.out.println("Terminated...");
                clientsocket.send(new
                    DatagramPacket(buf,str.length(), ia,
                                   sport));
                break;
            }
            clientsocket.send(new DatagramPacket(buf,
                str.length(), ia, sport));
            clientsocket.receive(dp);
            String str2 = new String(dp.getData(), 0,
                dp.getLength());
            System.out.println("Server: " + str2);
        }
    }
}
```

**OUTPUT:**

**SERVER: (Terminal - 1)**

C:\IPLAB>javac UDPServer.java

C:\IPLAB>java UDPServer

Server is Running...

Client: Hello

Welcome

Terminated...

C:\IPLAB>

**CLIENT: (Terminal - 2)**

C:\IPLAB>javac UDPClient.java

C:\IPLAB>java UDPClient

Client is Running... Type 'STOP' to Quit

Hello

Server: Welcome

STOP

Terminated...

C:\IPLAB>

**Write a servlet program to display a 'Wish you happy birth day' message on the client system.**

---

**PROGRAM:**

**Birthday.java**

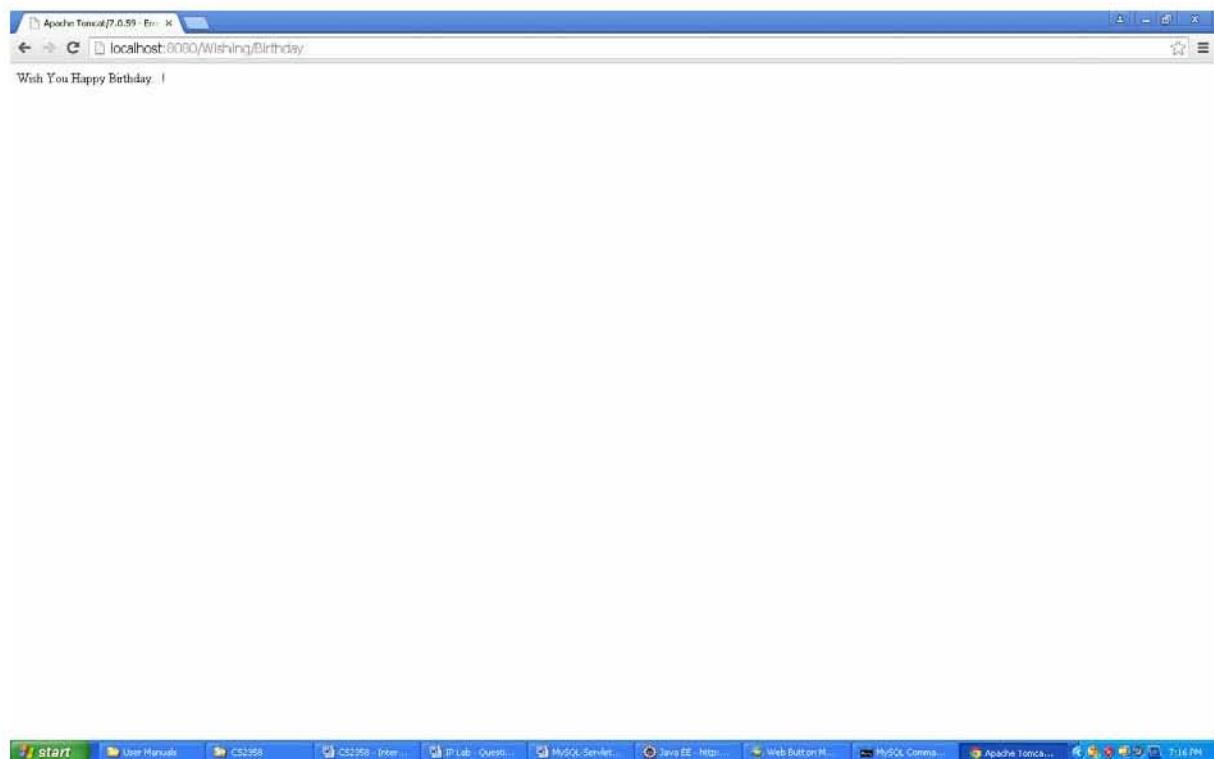
```
import java.io.IOException;
import java.io.PrintWriter;

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

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

    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
     HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request,
                         HttpServletResponse response) throws ServletException,
                         IOException {
        // TODO Auto-generated method stub
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        out.println("Wish You Happy Birthday...!");
    }
}
```

**OUTPUT:**



Create a dynamic HTML form that allows the user to enter the name of the city. While submission of this form, the servlet retrieves and responses the weather report for the user entered city.

---

**PROGRAM:**

**Database**

```
mysql> create database rmc;
Query OK, 1 row affected (0.00 sec)

mysql> use rmc;
Database changed
mysql> create table forecast(
    -> city varchar(20),
    -> weather int);
Query OK, 0 rows affected (0.08 sec)

mysql> describe forecast;
+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| city  | varchar(20) | YES  |     | NULL    |       |
| weather | int(11)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> insert into forecast values ('Chennai', 30);
Query OK, 1 row affected (0.01 sec)

mysql> insert into forecast values ('Kancheepuram', 28);
Query OK, 1 row affected (0.03 sec)

mysql> select * from forecast;
+-----+-----+
| city      | weather |
+-----+-----+
| Chennai   |      30 |
| Kancheepuram | 28 |
+-----+-----+
2 rows in set (0.01 sec)
```

**index.html**

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Weather Report</title>
</head>
<body>

<form method="post" action="View">
<h1>View Weather Report</h1>
Enter the City :
<input type="text" name="city">
<br>
<input type="submit" value="Submit">
</form>
</body>
</html>
```

### View.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 javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

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

    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
     HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request,
                          HttpServletResponse response) throws ServletException,
                                         IOException {
        // TODO Auto-generated method stub
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        Connection conn = null;
        PreparedStatement ps = null;
        ResultSet rs = null;
        try
        {
            Class.forName("com.mysql.jdbc.Driver");
            String URL = "jdbc:mysql://localhost:3306/rmc";
            conn = DriverManager.getConnection(URL, "root", "admin");
            ps = conn.prepareStatement("select * from forecast where
                                      city = ?");
            String city = request.getParameter("city");
            ps.setString(1, city);
            rs = ps.executeQuery();
            out.println("<img src='rmchead.jpg'>");
        }
    }
}
```

```
if(rs.next())
{
    out.println("<center><h3>Weather report</h3>
                </center>");
    out.println("<hr>");
    out.println("City :" + rs.getString(1));
    out.println("<br>");
    out.println("Current Weather :" + rs.getString(2) +
               " Celsius");
    out.println("<br>");
}
else
{
    out.println("<center><h3>Sorry... City Information
                Not Found...</h3></center>");
}
out.println("<center><a href='index.html'>BACK</a>
            </center>");
ps.close();
conn.close();
ps.close();
conn.close();
}
catch(Exception e)
{
    out.println(e);
}
}
```

**OUTPUT :**



**View Weather Report**

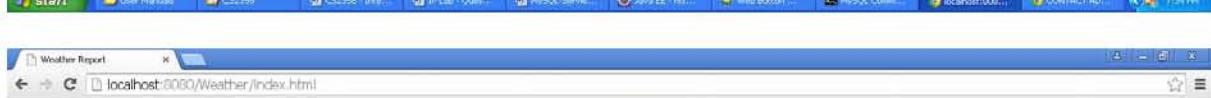
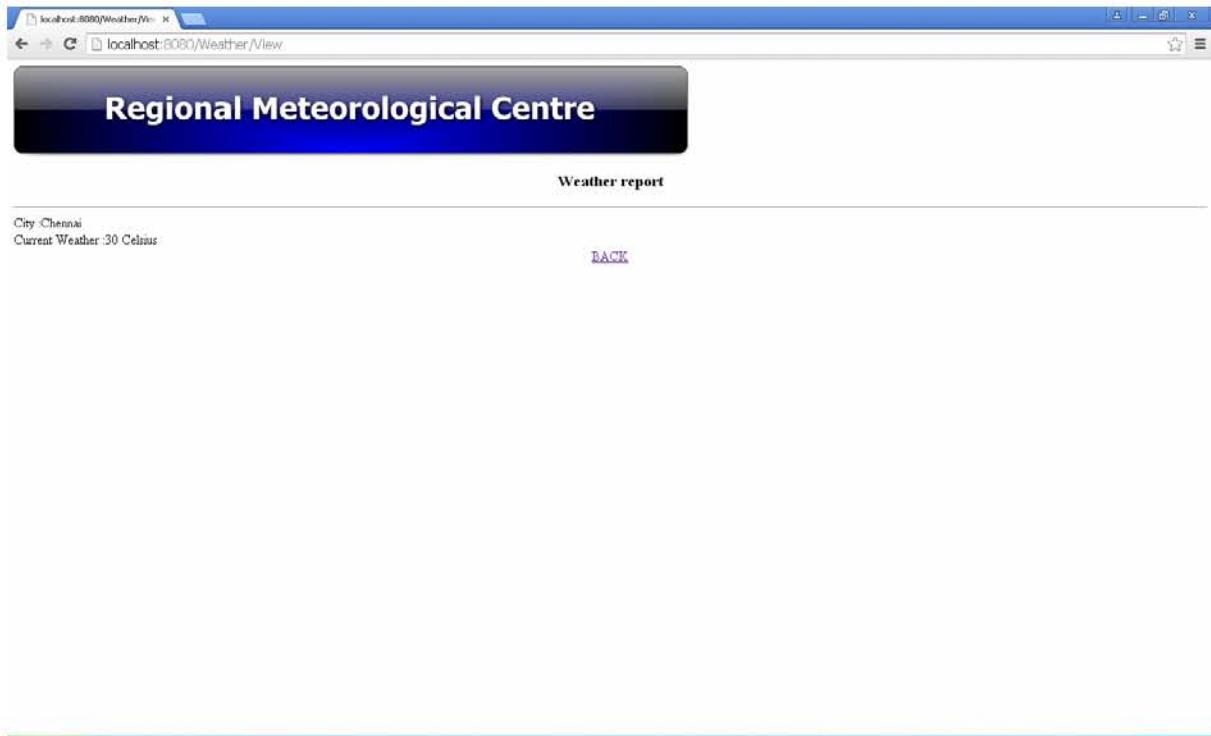
Enter the City :



**View Weather Report**

Enter the City :





Create an address book servlet that allows the user to register for several mailing lists. The address book contains firstname, designation, address1, address2, City, State, emailid. When emailid is given, it return an HTML page with all the information.

---

**PROGRAM:**

**Database**

```
mysql> create database address;
Query OK, 1 row affected (0.00 sec)

mysql> use address;
Database changed
mysql> create table contacts
-> (firstname varchar(20),
-> designation varchar(20),
-> street varchar(20),
-> locality varchar(20),
-> city varchar(20),
-> state varchar(20),
-> emailid varchar(100),
-> primary key(emailid));
Query OK, 0 rows affected (0.08 sec)

mysql> describe contacts;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| firstname | varchar(20) | YES | | NULL | |
| designation | varchar(20) | YES | | NULL | |
| street | varchar(20) | YES | | NULL | |
| locality | varchar(20) | YES | | NULL | |
| city | varchar(20) | YES | | NULL | |
| state | varchar(20) | YES | | NULL | |
| emailid | varchar(100) | NO | PRI | | |
+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

**index.html**

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Address Book</title>
</head>
<body>

<br>
<a href="add.html">Add New Address</a>
<a href="view.html">View Address</a>
</body>
</html>
```

**add.html**

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1"><title>Add</title>
</head>
<body>
<form method="post" action="Add">
<h1>Add New Address</h1>
First Name :
<input type="text" name="firstname">
<br>
Designation :
<input type="text" name="designation">
<br>
Street :
<input type="text" name="street">
<br>
Locality :
<input type="text" name="locality">
<br>
City :
<input type="text" name="city">
<br>
State :
<input type="text" name="state">
<br>
Email Id :
<input type="text" name="emailid">
<br>
<input type="submit" value="Submit">
</form>
</body>
</html>
```

**view.html**

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>View</title>
</head>
<body>
<form method="post" action="View">
<h1>View Address</h1>
Email Id :
<input type="text" name="emailid">
<br>
<input type="submit" value="Submit">
</form>
</body>
</html>
```

### Add.java

```
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;

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

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

    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
     HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request,
                          HttpServletResponse response) throws ServletException,
                                         IOException {
        // TODO Auto-generated method stub
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        Connection conn = null;
        PreparedStatement ps = null;
        try {
            Class.forName("com.mysql.jdbc.Driver");
            String URL = "jdbc:mysql://localhost:3306/address";
            conn = DriverManager.getConnection(URL, "root", "admin");
            ps = conn.prepareStatement("insert into contacts
                                      values (?, ?, ?, ?, ?, ?, ?, ?)");
            String firstname = request.getParameter("firstname");
            String designation = request.getParameter("designation");
            String street = request.getParameter("street");
            String locality = request.getParameter("locality");
            String city = request.getParameter("city");
            String state = request.getParameter("state");
            String emailid = request.getParameter("emailid");
            ps.setString(1, firstname);
            ps.setString(2, designation);
            ps.setString(3, street);
```

```
ps.setString(4, locality);
ps.setString(5, city);
ps.setString(6, state);
ps.setString(7, emailid);
ps.executeUpdate();
out.println("<img src='addbook.jpg'>");
out.println("<center><h3>New Address Added Successfully
</h3></center>");
out.println("<center><a href='index.html'>HOME</a>
</center>");
ps.close();
conn.close();
ps.close();
conn.close();
}
catch(Exception e)
{
    out.println(e);
}
}
}
```

### View.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 javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

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

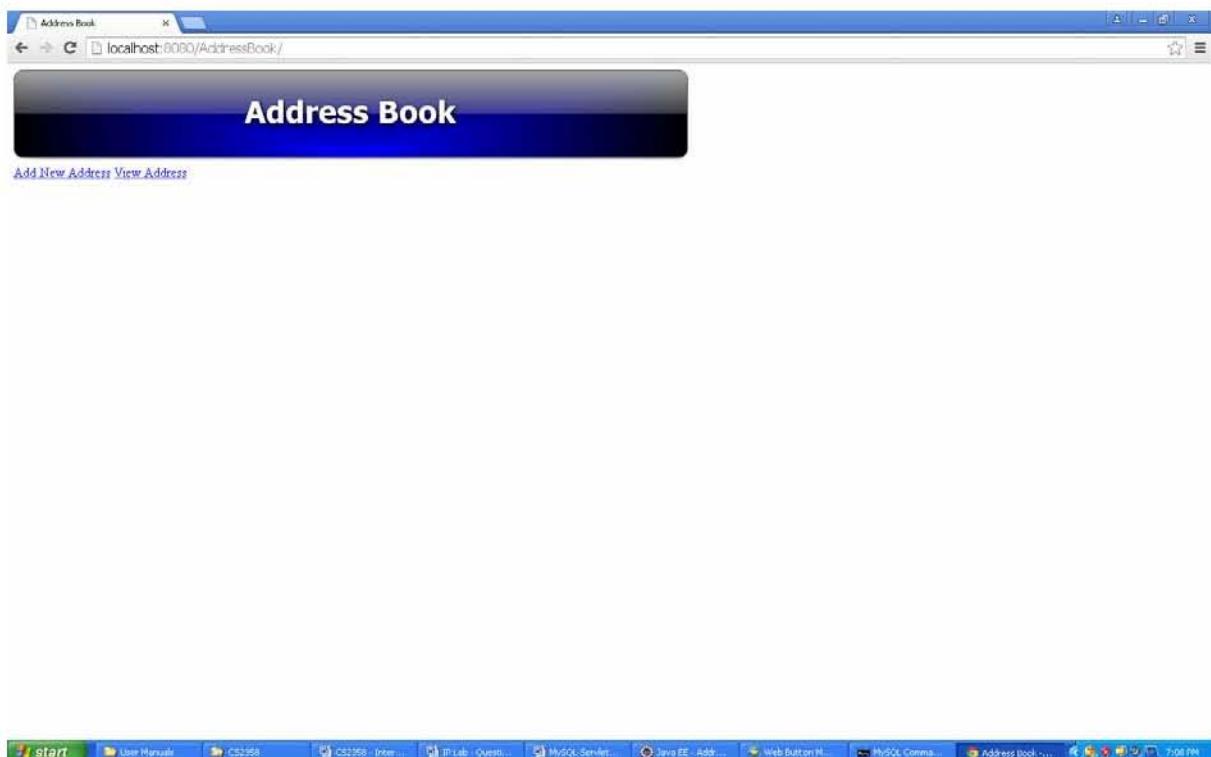
    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
     HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request,
                          HttpServletResponse response) throws ServletException,
                                         IOException {
        // TODO Auto-generated method stub
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        Connection conn = null;
        PreparedStatement ps = null;
        ResultSet rs = null;
        try
        {
            Class.forName("com.mysql.jdbc.Driver");
            String URL = "jdbc:mysql://localhost:3306/address";
            conn = DriverManager.getConnection(URL, "root", "admin");
            ps = conn.prepareStatement("select * from contacts where
                                      emailid = ?");
            String emailid = request.getParameter("emailid");
            ps.setString(1, emailid);
            rs = ps.executeQuery();
            out.println("<img src='addbook.jpg'>");
        }
    }
}
```

```

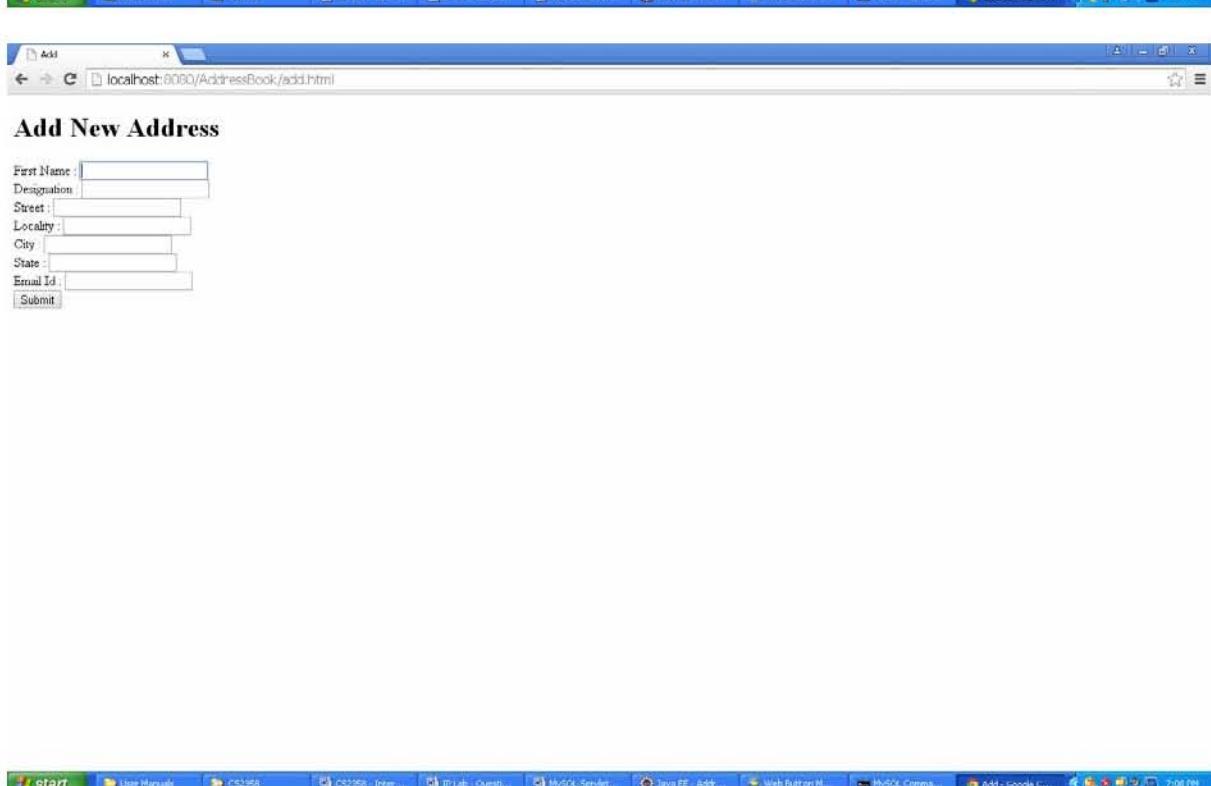
if(rs.next())
{
    out.println("<center><h3>Address Book Information
                </h3></center>");
    out.println("<hr>");
    out.println("First Name :" + rs.getString(1));
    out.println("<br>");
    out.println("Designation :" + rs.getString(2));
    out.println("<br>");
    out.println("Street :" + rs.getString(3));
    out.println("<br>");
    out.println("Locality :" + rs.getString(4));
    out.println("<br>");
    out.println("City :" + rs.getString(5));
    out.println("<br>");
    out.println("State :" + rs.getString(6));
    out.println("<br>");
    out.println("Email Id. :" + rs.getString(7));
    out.println("<br>");
}
else
{
    out.println("<center><h3>Sorry... Address Book
                Information Not Found...</h3></center>");
}
out.println("<center><a href='index.html'>HOME</a>
            </center>");
ps.close();
conn.close();
ps.close();
conn.close();
}
catch(Exception e)
{
    out.println(e);
}
}
}
}

```

**OUTPUT:**



The screenshot shows a web browser window titled "Address Book" with the URL "localhost:8080/AddressBook/". The page has a dark blue header bar with the text "Address Book" in white. Below the header, there are two links: "Add New Address" and "View Address".

The screenshot shows a web browser window titled "Add" with the URL "localhost:8080/AddressBook/add.html". The title bar also includes "start", "User Manuals", "CS2988", "CS2988 - Inter...", "IP Lab - Quest...", "MySQL-Serv...", "Java EE - Addr...", "Web Button H...", "MySQL Comm...", "Address Book - Google C...", and "7:08 PM".

The main content of the page is titled "Add New Address". It contains a form with the following fields:

- First Name :
- Designation :
- Street :
- Locality :
- City :
- State :
- Email Id :
-

Add

localhost:8080/AddressBook/add.html

**Add New Address**

First Name : Bhuvaneswaran  
Designation: Assistant Professor  
Street : 179 Krishnan Street  
Locality : Pillaiyar Palayam  
City : Kanchipuram  
State : Tamil Nadu  
Email Id : bhuvangalee@gmail.com







### View Address

Email Id :



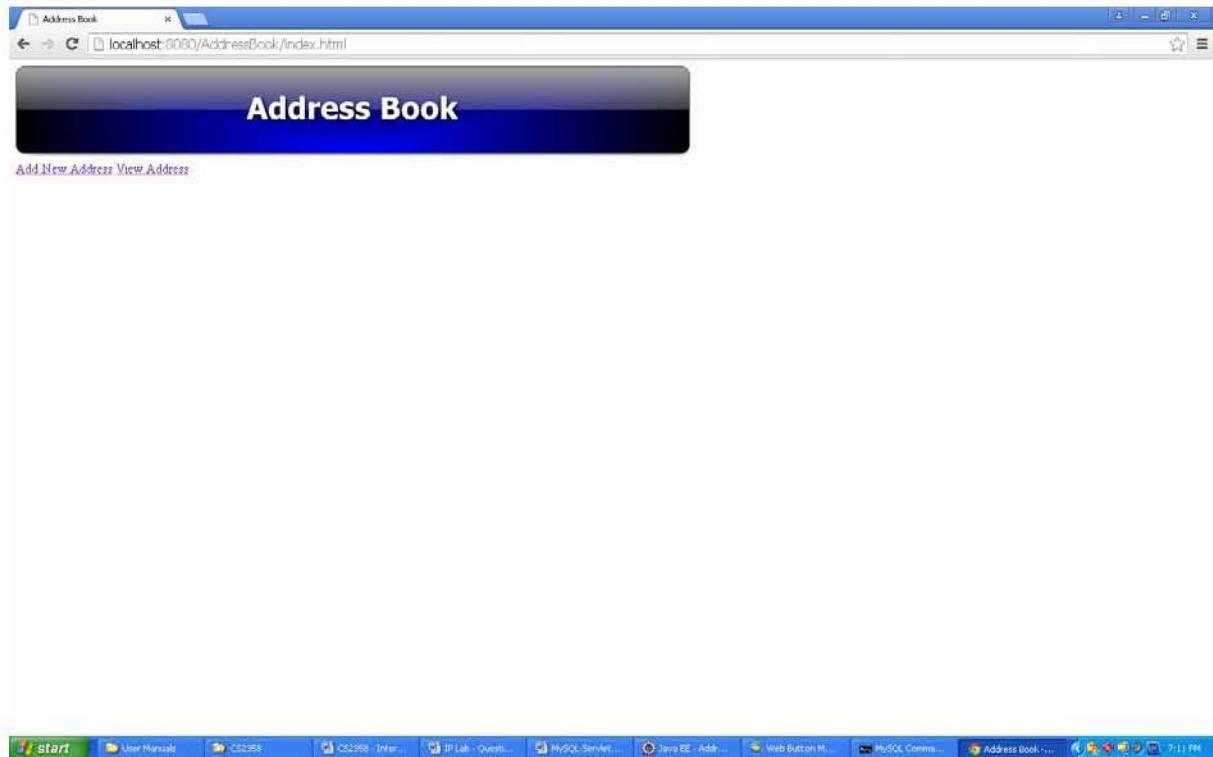
## Address Book

### Address Book Information

First Name : Bhuvaneswaran  
Designation : Assistant Professor  
Street : 179 Krishnan Street  
Locality : Pillayar Palayam  
City : Kancheepuram  
State : Tamil Nadu  
Email Id : [bhuvangates@gmail.com](mailto:bhuvangates@gmail.com)

[HOME](#)





Write a Java Server Page program to find the simple interest. Test this by a client program to get the form data inputs (Principal amount, rate of interest, periods) and display the result ( $SI=(P*N*R)/100$ ) .

---

**PROGRAM:**

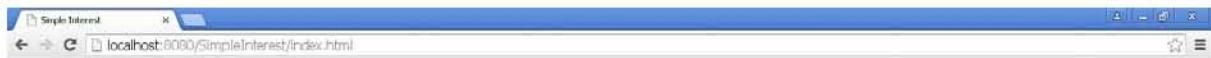
**index.html**

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Simple Interest</title>
</head>
<body>
<form method="post" action="si.jsp">
<h1>Simple Interest Calculation</h1>
Enter the Principle Amount :
<input type="text" name="p">
<br>
Enter the Number of Years :
<input type="text" name="n">
<br>
Enter the Rate of Interest :
<input type="text" name="r">
<br>
<input type="submit" value="Submit">
</form>
</body>
</html>
```

### si.jsp

```
<%@ page language="java" contentType="text/html;
    charset=ISO-8859-1" 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>Simple Interest</title>
</head>
<body>
<h1>Simple Interest</h1>
<%
    double p = Double.valueOf(request.getParameter("p"));
    double n = Double.valueOf(request.getParameter("n"));
    double r = Double.valueOf(request.getParameter("r"));
    double si = (p * n * r) / 100.0;
%>
Principle Amount : <%=p%>
<br>
Number of Years : <%=n%>
<br>
Rate of Interest : <%=r%>
<br>
Simple Interest : <%=si%>
<br>
</body>
</html>
```

## OUTPUT :

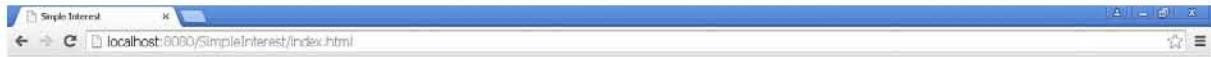


### Simple Interest Calculation

Enter the Principle Amount :

Enter the Number of Years :

Enter the Rate of Interest :



### Simple Interest Calculation

Enter the Principle Amount :

Enter the Number of Years :

Enter the Rate of Interest :





## Simple Interest

Principle Amount: 10000.0  
Number of Years: 10.0  
Rate of Interest: 24.0  
Simple Interest: 24000.0



Create a Servlet program for Session tracking using hidden form fields.

---

**PROGRAM:**

**Login.html**

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Login</title>
</head>
<body>
<form method = "post" action = "Login">
User Name :
<input type = "text" name = "uname" />
<br />
Password :
<input type = "password" name = "passwd" />
<br />
<input type = "submit" value = "Login" />
</form>
</body>
</html>
```

### **Login.java**

```
import java.io.IOException;
import java.io.PrintWriter;

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

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

    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
     *      HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request,
                          HttpServletResponse response) throws
    ServletException, IOException {
        // TODO Auto-generated method stub
        try{
            response.setContentType("text/html");
            PrintWriter out = response.getWriter();

            String name = request.getParameter("uname");
            out.print("Welcome " + name);

            //creating form that have invisible textfield
            out.print("<form method = 'post' "
                      "action = 'Display'>");
            out.print("<input type = 'hidden' name = 'uname' "
                      "value = '" + name + "'>");
            out.print("<input type = 'submit' "
                      "value = 'Display'>");
            out.print("</form>");
            out.close();
        }
        catch(Exception e){
            System.out.println(e);
        }
    }
}
```

### **Display.java**

```
import java.io.IOException;
import java.io.PrintWriter;

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

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

    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
     *      HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request,
                          HttpServletResponse response) throws
    ServletException, IOException {
        // TODO Auto-generated method stub
        try{
            response.setContentType("text/html");
            PrintWriter out = response.getWriter();

            //Getting the value from the hidden field
            String n=request.getParameter("uname");
            out.print("Hello "+n);

            out.close();
        }
        catch(Exception e){
            System.out.println(e);
        }
    }
}
```

## OUTPUT:

User Name :   
Password :   
Login

User Name : bhuvan  
Password :   
Login





**Create a Servlet program for Session tracking using Session tracking for a hit count.**

---

**PROGRAM:**

```
PageHitCounter.java
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletConfig;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
 * Servlet implementation class PageHitCounter
 */
@WebServlet("/PageHitCounter")
public class PageHitCounter extends HttpServlet {
    private static final long serialVersionUID = 1L;
    private int hitCount;
    /**
     * @see Servlet#init(ServletConfig)
     */
    public void init(ServletConfig config) throws
        ServletException {
        // TODO Auto-generated method stub
        // Reset hit counter.
        hitCount = 0;
    }
    /**
     * @see HttpServlet#doGet(HttpServletRequest request,
     *      HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request,
        HttpServletResponse response) throws
        ServletException, IOException {
        // TODO Auto-generated method stub
        // Set response content type
        response.setContentType("text/html");
        // This method executes whenever the servlet is hit
        // increment hitCount
        hitCount++;
        PrintWriter out = response.getWriter();
        String title = "Total Number of Hits";
        out.println("<html><body>");
        out.println("<h1>" + title + "</h1>");
        out.println("<h2>" + hitCount + "</h2>");
        out.println("</body></html>");
    }
}
```

**OUTPUT:**



Create a Servlet program for Session tracking using Session objects.

---

**PROGRAM:**

**Login.html**

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Login</title>
</head>
<body>
<form method = "post" action = "Login">
User Name :
<input type = "text" name = "uname" />
<br />
Password :
<input type = "password" name = "passwd" />
<br />
<input type = "submit" value = "Login" />
</form>
</body>
</html>
```

### **Login.java**

```
import java.io.IOException;
import java.io.PrintWriter;

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

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

    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
     *      HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request,
                          HttpServletResponse response) throws
        ServletException, IOException {
        // TODO Auto-generated method stub
        try{
            response.setContentType("text/html");
            PrintWriter out = response.getWriter();

            String name = request.getParameter("uname");
            out.print("Welcome " + name);

            HttpSession session=request.getSession();
            session.setAttribute("uname",name);

            out.print("<a href = 'Display'>Display</a>");
            out.close();
        }
        catch(Exception e){
            System.out.println(e);
        }
    }
}
```

### **Display.java**

```
import java.io.IOException;
import java.io.PrintWriter;

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

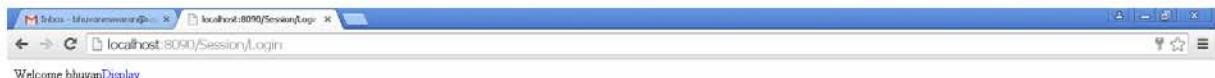
/**
 * Servlet implementation class Display
 */
@WebServlet("/Display")
public class Display extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
     *      HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request,
                          HttpServletResponse response) throws
        ServletException, IOException {
        // TODO Auto-generated method stub
        try{
            response.setContentType("text/html");
            PrintWriter out = response.getWriter();

            HttpSession session=request.getSession(false);
            String name =
                (String)session.getAttribute("uname");
            out.print("Hello " + name);
            out.close();
        }
        catch(Exception e){
            System.out.println(e);
        }
    }
}
```

## OUTPUT:





Create a program to change the content of the web page using AJAX. (or) Create a program in AJAX using Javascript, DHTML and the XMLHttpRequest object to perform a GET or POST and return a result without reloading the HTML page.

---

**PROGRAM:**

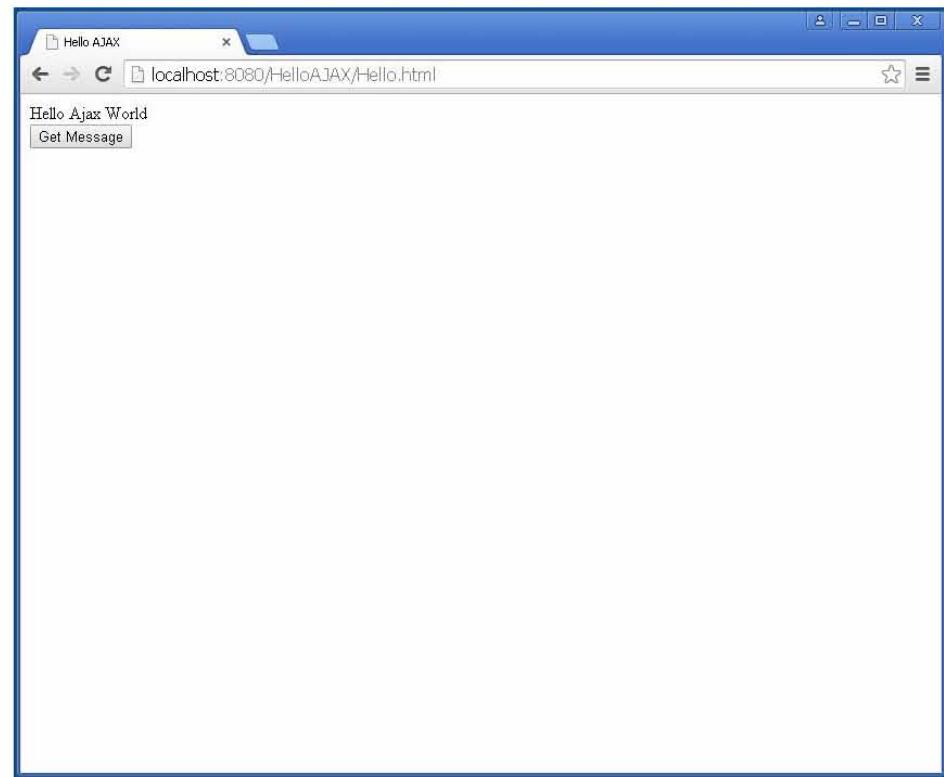
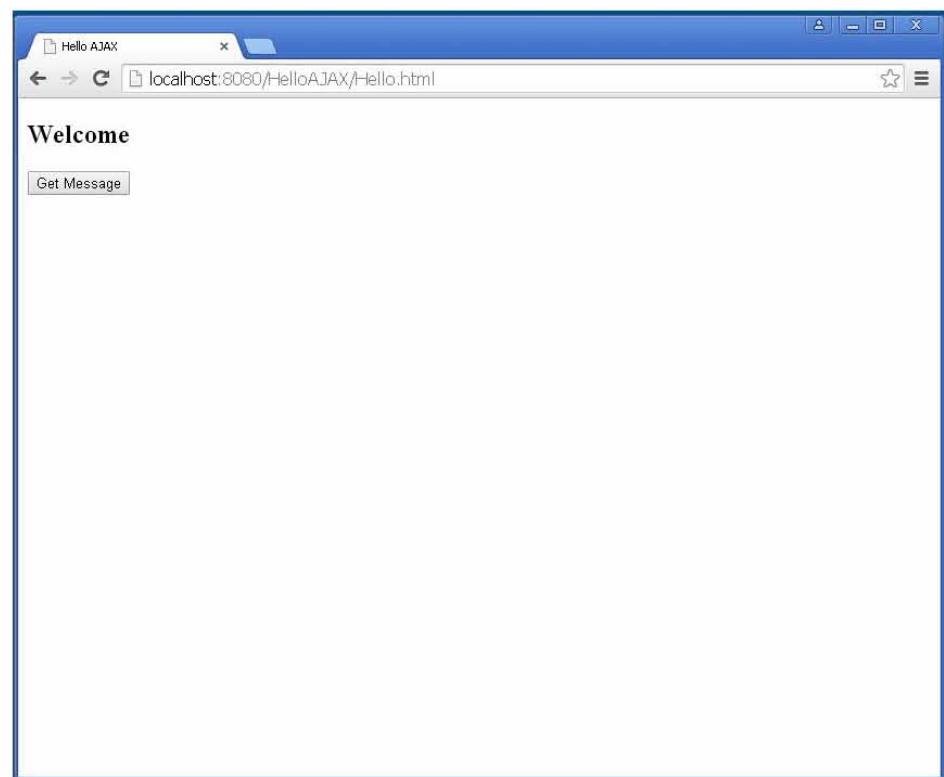
**Hello.html**

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Hello AJAX</title>
<script>
function loadXMLDoc()
{
    var xmlhttp;
    if (window.XMLHttpRequest)
    {
        xmlhttp=new XMLHttpRequest();
    }
    else
    {
        xmlhttp=new ActiveXObject("Microsoft.XMLHTTP");
    }
    xmlhttp.onreadystatechange=function()
    {
        if (xmlhttp.readyState==4 && xmlhttp.status==200)
        {
            document.getElementById("myDiv").innerHTML =
                xmlhttp.responseText;
        }
    }
    xmlhttp.open("GET","rec.txt",true);
    xmlhttp.send();
}
</script>
</head>
<body>
    <div id="myDiv"><h2>Welcome</h2></div>
    <button type="button" onclick="loadXMLDoc()">
        Get Message
    </button>
</body>
</html>
```

**rec.txt**

Hello Ajax World

**OUTPUT:**



Create a program to implement the concept of asynchronous java script XML for webpage login process.

---

**PROGRAM:**

**Login.html**

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Login</title>
<script>
function postRequest(strURL)
{
    var xmlhttp;
    if (window.XMLHttpRequest)
    {
        xmlhttp=new XMLHttpRequest();
    }
    else
    {
        xmlhttp=new ActiveXObject("Microsoft.XMLHTTP");
    }

    xmlhttp.onreadystatechange=function()
    {
        if (xmlhttp.readyState==4 && xmlhttp.status==200)
        {
            updatePage(xmlhttp.responseText);
        }
    }
    xmlhttp.open("GET", strURL, true);
    xmlhttp.send(strURL);
}

function updatePage(str)
{
    if(str == "yes")
    {
        alert("Welcome User");
    }
    else
    {
        alert("Invalid Login! Please try again!");
    }
}
```

```
function calllogin()
{
var username = window.document.frmlogin.username.value;
var password = window.document.frmlogin.password.value;
var url = "Login?username="+username+"&password=" + password;
postRequest(url);
}
</script>
</head>
<body>
<form name="frmlogin" onsubmit="return calllogin()">
<h1>Login</h1>
User Name :
<input type="text" name="username">
Password :
<input type="password" name="password">
<input type="submit" value="Login">
</form>
</body>
</html>
```

### **Login.java**

```
import java.io.IOException;
import java.io.PrintWriter;

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

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

    /**
     * @see HttpServlet#doGet(HttpServletRequest request,
     HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request,
                         HttpServletResponse response) throws ServletException,
                         IOException {
        // TODO Auto-generated method stub
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        String username = request.getParameter("username");
        String password = request.getParameter("password");
        if(username.equals("admin") && password.equals("admin"))
            out.print("yes");
        else
            out.print("no");

    }
}
```

## OUTPUT:



**Login**

User Name :  Password :  Login

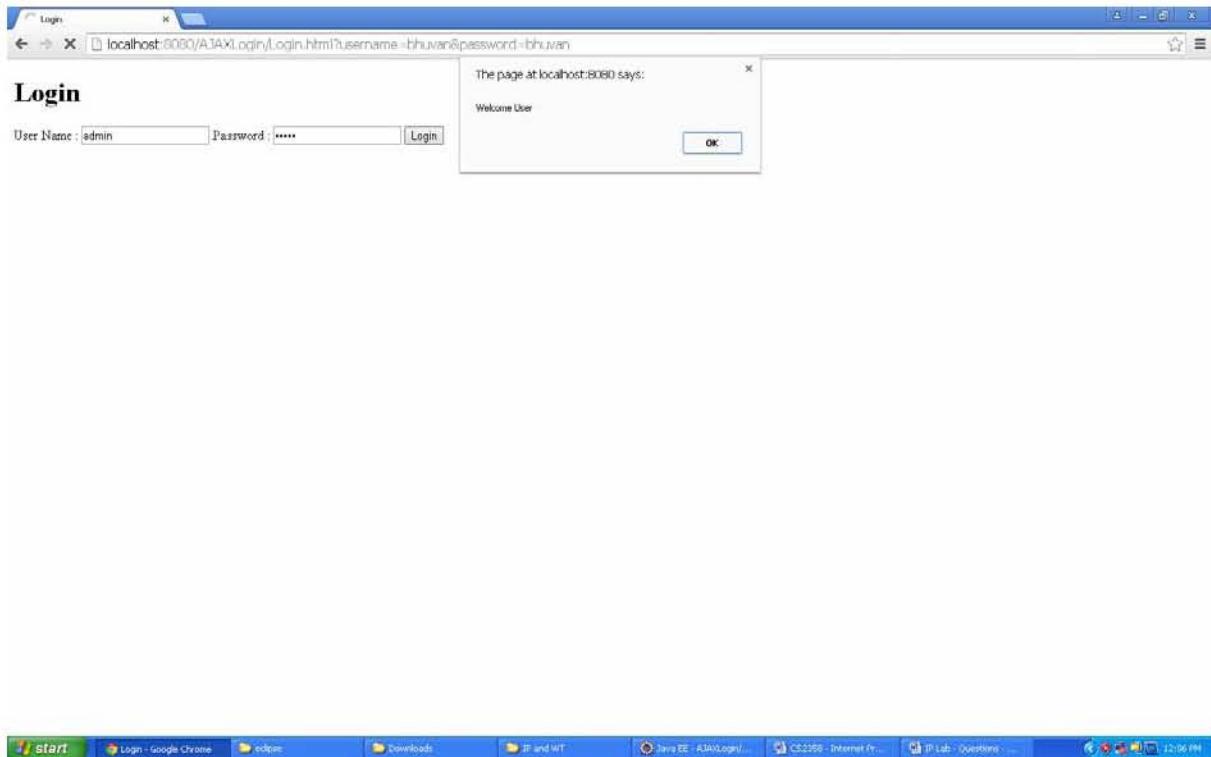


**Login**

User Name :  Password :  Login







Create a SOAP based web service for a simple Java Calculator class with operations 'add' and 'subtract' and then create a web service client which then consumes the web service and displays the result of the invoked web service.

---

**PROGRAM:**

**Calculator.java**

```
package org.rajalakshmi.webservices.calc;

import javax.jws.WebService;

@WebService
public class Calculator {

    public int add(int a, int b)
    {
        return (a + b);
    }

    public int sub(int a, int b)
    {
        return (a - b);
    }
}
```

**CalcEndPointPublisher.java**

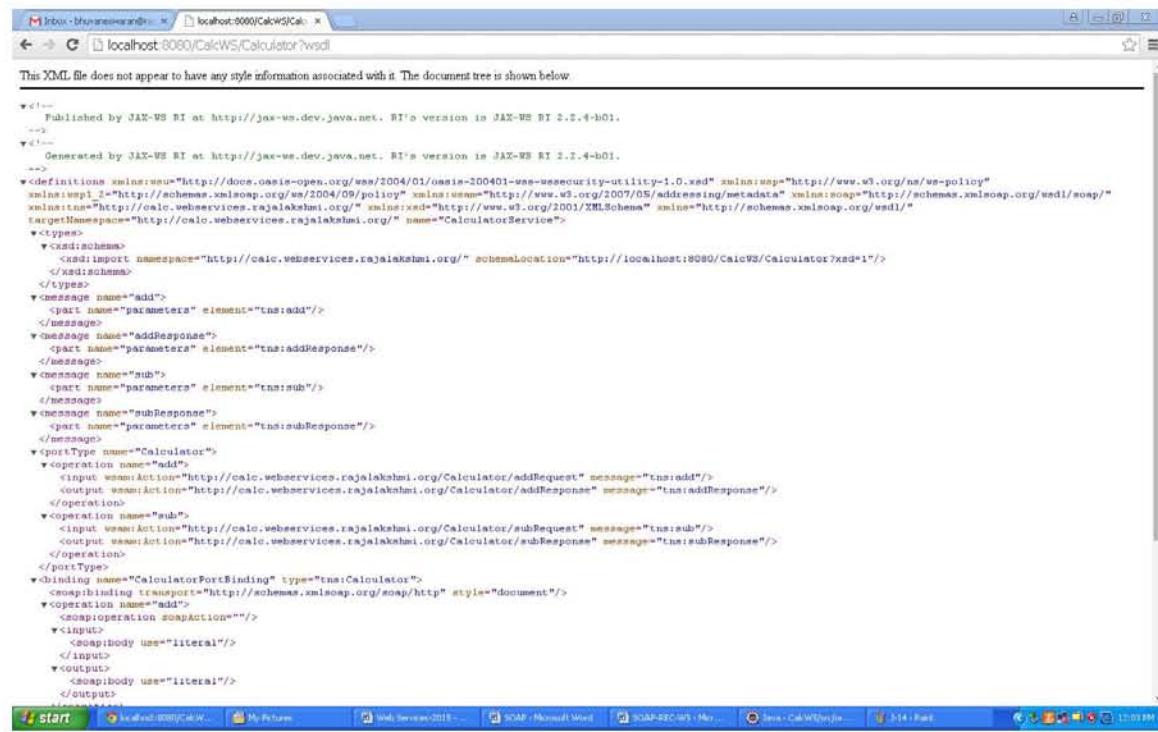
```
package org.rajalakshmi.webservices.calc;

import javax.xml.ws.Endpoint;

public class CalcEndPointPublisher {

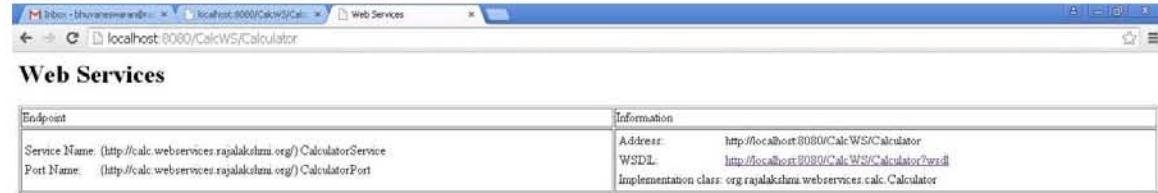
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Endpoint.publish("http://localhost:8080/CalcWS/Calculator",
            new Calculator());
    }
}
```

## OUTPUT:



This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<?xml version="1.0"?>
<!-- Published by JAX-WS RI at http://jax-ws.dev.java.net. RI's version is JAX-WS RI 2.2.4-b01. -->
<!-- Generated by JAX-WS RI at http://jax-ws.dev.java.net. RI's version is JAX-WS RI 2.2.4-b01. -->
<definitions xmlns="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" xmlns:ws="http://www.w3.org/ns/ws-policy"
  xmlns:wsdl="http://schemas.xmlsoap.org/ws/2004/09/wsdl" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://calc.webservices.rajalakshmi.org/" name="CalculatorService">
  <xsd:schema>
    <xsd:import namespace="http://calc.webservices.rajalakshmi.org/" schemaLocation="http://localhost:8080/CalcWS/Calculator?xsd=1"/>
  </xsd:schema>
  </types>
  <message name="add">
    <part name="parameters" element="tns:add"/>
  </message>
  <message name="addResponse">
    <part name="parameters" element="tns:addResponse"/>
  </message>
  <message name="sub">
    <part name="parameters" element="tns:sub"/>
  </message>
  <message name="subResponse">
    <part name="parameters" element="tns:subResponse"/>
  </message>
  <portType name="Calculator">
    <operation name="add">
      <input wsam:action="http://calc.webservices.rajalakshmi.org/Calculator/addRequest" message="tns:add"/>
      <output wsam:action="http://calc.webservices.rajalakshmi.org/Calculator/addResponse" message="tns:addResponse"/>
    </operation>
    <operation name="sub">
      <input wsam:action="http://calc.webservices.rajalakshmi.org/Calculator/subRequest" message="tns:sub"/>
      <output wsam:action="http://calc.webservices.rajalakshmi.org/Calculator/subResponse" message="tns:subResponse"/>
    </operation>
  </portType>
  <binding name="CalculatorPortBinding" type="tns:Calculator">
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="document"/>
    <operation name="add">
      <soap:operation soapAction="" />
      <input>
        <soap:body use="literal"/>
      </input>
      <output>
        <soap:body use="literal"/>
      </output>
    </operation>
  </binding>
</definitions>
```



Web Services

Endpoint	Information
Service Name: ( <a href="http://calc.webservices.rajalakshmi.org/">http://calc.webservices.rajalakshmi.org/</a> ) CalculatorService Port Name: ( <a href="http://calc.webservices.rajalakshmi.org/">http://calc.webservices.rajalakshmi.org/</a> ) CalculatorPort	Address: <a href="http://localhost:8080/CalcWS/Calculator">http://localhost:8080/CalcWS/Calculator</a> WSDL: <a href="http://localhost:8080/CalcWS/Calculator?wsdl">http://localhost:8080/CalcWS/Calculator?wsdl</a> Implementation class: org.rajalakshmi.webservices.calc.Calculator

**PROGRAM:**

**CalcClient.java**

```
package org.rajalakshmi.webservices.calc.client;

import org.rajalakshmi.webservices.calc.Calculator;
import org.rajalakshmi.webservices.calc.CalculatorService;

public class CalcClient {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int a = 10;
        int b = 20;
        CalculatorService calcService = new CalculatorService();
        Calculator calc = calcService.getCalculatorPort();
        System.out.println(a + " + " + b + " = " + calc.add(a, b));
        System.out.println(a + " - " + b + " = " + calc.sub(a, b));
    }
}
```

**OUTPUT:**

10 + 20 = 30  
10 - 20 = -10



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Teach him how to fish and you feed him for a lifetime.***