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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CS6512 – INTERNET PROGRAMMING LABORATORY

V SEMESTER - R 2013

LABORATORY MANUAL

FIFSTR

Name

Register No. :

Section

1



VISION

College of Engineering is committed to provide highly disciplined, conscientious and enterprising professionals conforming to global standards through value based quality education and training.

MISSION

- To provide competent technical manpower capable of meeting requirements of the industry
- To contribute to the promotion of Academic Excellence in pursuit of Technical Education at different levels
- To train the students to sell his brawn and brain to the highest bidder but to never put a price tag on heart and soul

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VISION

To strive for acquiring, applying and imparting knowledge in Computer Science and Engineering through quality education and to provide enthusiastic professionals with commitment

MISSION

- To educate the students with the state-of-art technologies to meet the growing challenges of the electronics industry
- To carry out research through continuous interaction with research institutes and industry, on advances in communication systems
- To provide the students with strong ground rules to facilitate them for systematic learning, innovation and ethical practices



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ROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

1. Fundamentals

To impart students with fundamental knowledge in Mathematics, Science and fundamentals of engineering that will would them to be successful professionals

2. Core Competence

To provide students with sound knowledge in engineering and experimental skills to identify complex software problems in industry and to develop practical solution for them

3. Breadth

To provide relevant training and experience to bridge the gap between theory and practice this enables to find solutions for real time problem in industry and organization and to design products requiring interdisciplinary skills

4. Professionalism skills

To bestow students with adequate training and provide opportunities to work as team that will build up their communication skills, individual leadership and supportive qualities and to develop them to adapt and work in ever changing technologies

5. Lifelong Learning

To develop the ability of students to establish themselves as professionals in Computer Science and Engineering and to create awareness about the need for lifelong learning and pursuing advanced degrees

MMMFHS



PROGRAMME OUTCOMES (POs)

- a) To apply basic knowledge of Mathematics, Science and Engineering fundamentals in Computer Science and Engineering field
- b) To design and conduct experiments as well as to analyze and interpret and apply the same in the career
- c) To design and develop innovative and creative software applications
- d) To understand a complex real world problems and develop an efficient practical solutions
- e) To create, select and apply appropriate technique, resources, modern engineering and IT tools
- f) To understand their roles as professionals and give the best to the society
- g) To develop a system that will meet expected need with realistic constraints such as economical, environmental, social, political, ethical, safe and sustainable
- h) To communicate effectively and make others understand exactly what they are trying to convey in both verbal and written forms
- i) To engage lifelong learning and exhibit their technical skills
- j) To develop and manage projects in multidisciplinary environments



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SYLLABUS

COURSE OBJECTIVES

- Be familiar with Web page design using HTML/XML and style sheets
- Be exposed to creation of user interfaces using Java frames and applets
- Learn to create dynamic web pages using server side scripting.
- Learn to write Client Server applications
- Be familiar with the frameworks JSP Strut, Hibernate, Spring
- Be exposed to creating applications with AJAX

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
- 1. Create a page with a link at the top of it that when clicked will jump all the way to the bottom of the page. At the bottom of the page there should be a link to jump back to the top of the page.
- 2. Create a page for our college website.
- 3. Display an image that when clicked will link to itself and will display the image in the browser by itself.
- 4. Display five different images. Skip two lines between each image. Each image should have a title.
- 5. Print a paragraph that is a description of a book, include the title of the book as well as its author. Names and titles should be underlined, adjectives should be italicized and bolded.
- b) Create a web page with the following:
 - a. Cascading style sheets
 - b. Embedded style sheets
 - c. Inline style sheets. Use our college information for the web pages
- 1. Create a Navigation bar (with dropdown) with CSS
- 2. Create a CSS3 based Zebra striped table
- 3. Create a Symposium Registration / Feedback Form
- 4. Create a page our college information for the web page using CSS types
- 5. Create a page of How to set the background-attachment property whether a background image is fixed or scrolls with the rest of the page?



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- 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.
- 1. Create and save an XML document to view an food menu.
- 2. Create a XML Document for the Business Letter
- 3. A business has a telephone directory that records the first and last name, telephone number and email address of everyone working in the firm. Departments are the main organizing unit of the firm so the telephone directory is typically displayed in department order and shows for each department the contact phone and fax number and email address.
- 4. Create an XML document for the student database
- 5. Create an XML schema to describe a museum (use elements of the museum entity defined in the last chapter, and add to it a country element). Specify a set of acceptable values as a country and its calendar with date, opening time, and closing time.

SOCKETS & SERVLETS

- a) Write programs in Java using sockets to implement the following:
 - i. HTTP request
 - ii. FTP
 - iii. SMTP
 - iv. POP3
- 1. Write a Java program of creating a simple SMTP (simple mail transfer protocol) client, and a simple echo server for communication.
- 2. Write a Java program of Greeting Client is a client program that connects to a server by using a socket and sends a greeting, and then waits for a response.
- 3. Write a Java program of file transfer from local to remote.
- 4. Write a simple HTTP Server-Client program in Java.
- 5. Write a Java program of how to send an HTTP POST request with a Socket. A socket is an endpoint for communication between two machines. Sending an HTTP POST request using a Socket.
- 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
- 1. Write a Java Servlet program of creating a simple counter.
- 2. Write a Java Servlet program of Creating a Login page with parameter passing into the server.
- 3. Write a Java Servlet shows a servlet that uses client pull to display the current time, updated every 10 seconds.
- 4. Write a Java Servlet generates and returns a GIF image. The graphic says "Hello World!"



- 5. Write a Java Servlet uses session tracking to count the number of times a client has accessed it. The servlet also displays all the bindings for the current session, just because it can.
- d) Write programs in Java to create three-tier applications using servlets for conducting on-line examination for displaying student mark list. Assume that student information is available in a database which has been stored in a database server.
- 1. To create the Employees table in TEST database for online quiz.
- 2. To create the login database and access it through online link.
- 3. To create the Students database for their mark list.
- 4. To create the Library database.
- 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
- 1. To create the validation on the login form using Javascript method in JSP page.
- 2. Session Tracking using JSP.
- 3. Session Tracking using Servlet.
- 4. Write a JSP program of designing Scientific Calculator.
- 5. Write a JSP program of displaying cookies information.
- 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
 - i. JSP Struts Framework
 - ii. Hibernate
 - iii. 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



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d) Write a web services for predicting for any product sales

- 1. Write a hello world program of AJAX JQuery.
- 2. Write a calculator program of JSP Struts.
- 3. Create, Publish and Displaying a web service of product sales.
- 4. To display a message through Spring MVC framework.
- 5. Write a Program of Ajax with PHP database and displaying it.

WEBPAGE CONCEPTS

- d) 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
- e) Create a web page with the following:
 - a. Cascading style sheets
 - b. Embedded style sheets
 - c. Inline style sheets. Use our college information for the web pages
- f) 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

- b) 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
- d) Write programs in Java using Servlets:
 - i. To invoke servlets from HTML forms
 - iii. To invoke servlets from Applets
- h) Write programs in Java to create three-tier applications using servlets for conducting on-line examination for displaying student mark list. Assume that student information is available in a database which has been stored in a database server
- i) 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

- j) Session tracking using hidden form fields and Session tracking for a hit count
- k) 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:

- e) Implement a simple program using following frameworks
 - i. JSP Struts Framework
 - ii. Hibernate
 - iii. Spring
- f) 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
- g) Write a web services for finding what people think by asking 500 people's opinion for any consumer
- h) Write a web services for predicting for any product sales

COURSE OUTCOMES

- Create webpage to embed an image map, fix the hot spot, show all the information in hot spots in html
- Create a webpage with all type of cascading style sheets
- Create a client side scripts for validating web form controls using DHTML/XML
- Create a java program using protocol (HTTP/SMTP/FTP/POP3)
- Create a java program using applet and implementation in java to invoke servlets from HTML/ Applets
- Implement program in java to create three tier Architecture using JSP and database for Conducting online examination and also displaying student mark list for the student
- Session and Cookies information available in the server which is stored in JSP and Servlet
- Implement program using XML schema XSLT/XSL
- Implement a program using AJAX, Spring, Struts and Web services



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Expt. No.: 1

IMAGE MAPPING

Aim:

To create a web page with the following using HTML

- (i) To embed an image map in a web page
- (ii) To fix the hot spots
- (iii) Show all the related information when the hot spots are clicked

Software requirements:

Internet Explorer

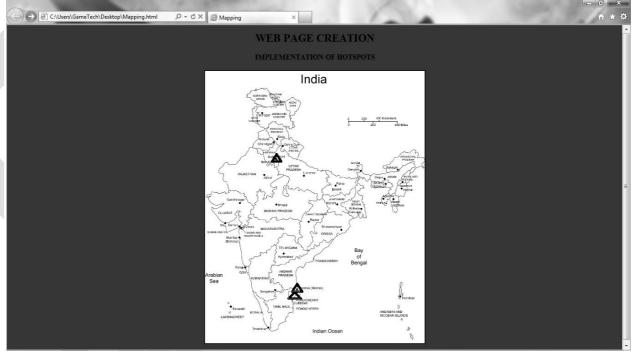
Hardware requirements:

Any Window OS

Algorithm:

- 1. Develop a web page, india.html and insert india map image using tag.
- 2. Create a image map using <map> element and fix appropriate hot spots using attribute
- 3. Convert the image into map using use map attribute.
- 4. Develop appropriate pages for each hot spot.
- 5. Load the india.html page using internet explorer.

Sample output:

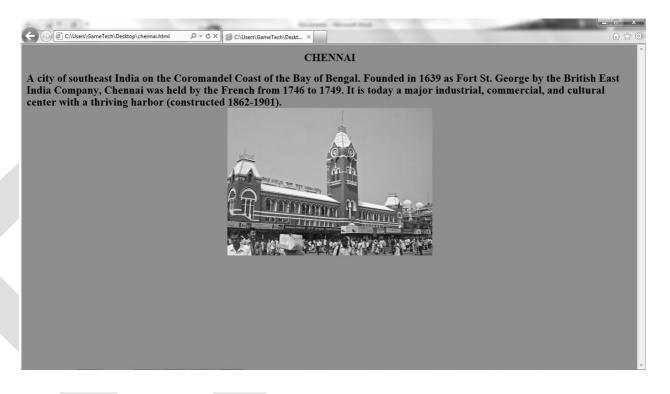


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Result:

Thus the program of creating webpage with image mapping is written and executed successfully.

Outcome:

Thus the outcome of creating webpage to embed an image map, fix the hot spot, show all the related Information when the hot spots are clicked using HTML(CO1) has been attained.

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Applications:

- 1. Web Site Designing of College, Online Editor, Front page of Gmail and Twitter
- 2. Creating Web Apps like OLA App, HDFC App.
- 3. Designing of Personal Web site like GoDaddy, Wedding Site



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Expt.No.: 2

STYLE SHEETS

Aim:

To create a web page with the following

- a. Cascading style sheets
- b. Embedded style sheets
- c. Inline style sheets. Use our college information for the web pages

Software requirements:

Internet Explorer

Hardware requirements:

Any Window OS

Algorithm:

- 1. CSS has been added to HTML to give web developers.
- 2. To get more control over their design and content layout
- 3. To create a standard set of commands to control the styles of all the subsequent pages
- 4. Web site designed in the CSS are faster to change and update.
- 5. Communication among multiple developers easier with CSSext.css & define a styles.
- 6. Then link the html file and css file using <link> tag
- 7. Load each files using internet explorer.

Sample output: Inline style sheet:

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<u>EXTERNAL STYLE SHEETS</u>

HOTSPOTS IN INDIA

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2.	Delhi
3.	Mumbai
4.	Kolkatta

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Result:

Thus the program for creating the website with college information using internal and external cascading style sheets is written and executed successfully.

Outcome:

Thus the outcome of creating a webpage with all type of cascading style sheets (CO2) has been attained.

Applications: 1. Designing of Interactive Web Pages like Front page of Yahoo, Facebook and Tutorials point.



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Expt. No.: 3 WEB FORM VALIDATION OF XML USING JS

Aim :

To Create and save an XML document at the server which contains 10 Student's results. And also write a jsp program, which takes student roll number as an input and returns the details by taking the user information from the XML document

Software requirements:

Internet Explorer

Hardware requirements:

Any Window OS

Algorithm:

- 1. Create the XML file and store 10 students results.
- 2. Design the HTML page with the following :
 - a. Get the roll number of the student by using form element
 - b. Set the URL of the server as the value of the action attribute
- 3. Submit the form data to the server.
- 4. Server read the parameter value (register number) from the form by using the method get Parameter().
- 5. Server retrieves the details from the XML file that corresponds the register number sent by the client.
- 6. Server displays the student details to the client as a response.



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Sample output:

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Name:	Karthik		
E-mail:	karthikraja95it@gmail.com		
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Result:

Thus the program for creating the webpage with client side script validation for web forms using XML is written and executed successfully.

Outcome:

Thus the course outcome of creating a client side scripts for validating web form controls using DHTML/XML (CO3) has been attained.

Applications:

- Designing web site validation like Enrollment form of NPTEL, Admission Registration of TNEA.
- 2. Designing web site validation of Registration and Feedback Queries of Web Sites.

Registered Successfully......!



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Expt.No. 4.(a) :

HTTP REQUEST

Aim:

To write programs in Java using sockets to implement the Http Request

Software requirements:

Internet Explorer, Jdk 7

Hardware requirements:

Any Window OS

Algorithm:

- 1. Import the package HttpUrlConnection
- 2. Set the URL AGENT as Mozilla
- 3. Create 2 methods send Get and send Post
- 4. Declare the 2 URL for send the request
- 5. Set the Request Method as post and properties user agent and accept language
- 6. Read the content of URL and print i

Sample output:

<!doctype html><html itemscope="" itemtype="http://schema.org/WebPage" lang="en-IN"><head><meta content="/logos/doodles/2015/annieitemprop="image"><meta content="Annie Besant's 168th birthday #GoogleDoodle" Testing 1 - Send Http GET request Sending 'GET' request to URL : http://www.google.com/ Response Code : 200 property="og:description"><meta.... CODING CONTINUES.... BUILD SUCCESSFUL (total time: 3 seconds)

Result:

Thus the java program using sockets to implement the http request messages has been executed successfully.



Expt.No.4(b): FILE TRANSFER PROTOCOL (FTP)

Aim:

To write a program in Java using sockets to implement the FTP

Software requirements:

Internet Explorer, Jdk 7

Hardware requirements:

Any Window OS

Algorithm:

- 1. Develop java programs to send and receive files through FTP
- 2. Instantiate the connection between the FTP Client and FTP Server using Sockets
- 3. If the connection is over by using GET and SET method
- 4. Files are read and written through corresponding readers in java
- 5. Files are transferred through Client to Server

Sample output:

F:\IP>java Main

[MENU]

- 1. Send File
- 2. Receive File
- 3. Exit
- Enter Choice :1

Enter File Name :server.java

File Already Exists. Want to OverWrite (Y/N) ? y

- [MENU]
- 1. Send File
- 2. Receive File
- 3. Exit

Enter Choice :3

F:\IP\client>java Main

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- [MENU]
- 1. Send File
- 2. Receive File
- 3. Exit
- Enter Choice :2
- Enter File Name :server.java
- Receiving File ...
- File Receive Successfully
- [MENU]
- 1. Send File
- 2. Receive File
- 3. Exit
- F:\IP>java server
- FTP Server Started on Port Number 5217
- Waiting for Connection ...
- FTP Client Connected ...
- Waiting for Connection ...
- Waiting for Command ...
- GET Command Received ...
- Waiting for Command ...

Result:

Thus the java program using sockets to implement the FTP protocol messages has been executed successfully.

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Expt.No. 4 (c): SIMPLE MAIL TRANSFERPROTOCOL

Aim:

To write a java program to demonstrate a simple SMTP Client

Software requirements:

Jdk 7

Hardware requirements:

Any Window OS

Algorithm:

- 1. Import all necessary packages and to establish a connection with the server
- 2. Read the acceptance from the server
- 3. Say HELLO to the server
- 4. Read the greeting from the server
- 5. Send sender address to server
- 6. Read the verification of sender from server
- 7. Send recipient address to server
- 8. Read the verification of recipient from server
- 9. Send DATA command to the server Steps
- 10. Read the start indication from server
- 11. Send the message to the server
- 12. Read the acceptance of message from server WHIST
- 13. Close the connection

Sample output:

F:\JAVA\BIN>javac smtp.java

F:\JAVA\BIN>javasmtp

Smtp Messages has been sent.

Result:

Thus the java program using sockets to implement the SMTP protocol messages has been executed successfully.

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Expt.No. 4(d): POST OFFICE PROTOCOL 3(POP3)

Aim:

To write a program in Java using sockets to implement the pop3

Software requirements:

Java

Hardware requirements:

Any Window OS

Algorithm:

- 1. Include javax mailpackage in netbeans
- 2. Save javax mail in folder.right click the libraries of pops project, select add jar/folder ,then select the javax mail
- 3. Create instance for gmail properties and enable the put method
- 4. Create instance for Session and Message
- 5. Set the less security for particular Gmail id by using the URL www.google.com/settings/security/lesssecureapps
- 6. Read the form, to address and content

Sample output:

messages.length---298

anker.com Email Number 1 Subject: Import your contacts and old email From: Gmail Team <mail-noreply@google.com> Text: javax.mail.internet.MimeMultipart@143c8b3

Email Number 2

Subject: Send Staff Profile - Most Urgent From: GEETHA P <geethaperu@gmail.com> Text: javax.mail.internet.MimeMultipart@12d7a10

Email Number 3

Subject: Send AICTE Staff Profile

From: GEETHA P <geethaperu@gmail.com>Text: javax.mail.internet.MimeMultipart@998b08



Result:

Thus the java program using sockets to implement the POP3 protocol messages has been executed successfully.

Outcome:

Thus the outcome of creating a java program using protocol (HTTP/SMTP/FTP/POP3) (CO4) has been attained.

Applications:

1. Designing Web Sites of Career Registration, Uploading of SSR in NAAC, Downloading files like Syllabus, Question bank of any education websites.

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2. Designing of Web Sites like any Compose Mail, Forward Mail and Reply Mail to the recipients.



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IMPLEMENTATION OF CHAT APPLICATION - UDP Expt.No.5:

Aim:

To write a java program to create a simple chat application with datagram sockets

Software requirements:

Jdk 7

Hardware requirements:

Any window OS

Algorithm:

Server Side

- 1. Import net and io packages and class
- 2. Create a datagram socket an datagram packet
- 3. While client send datagram packet to server listen to client port
- 4. Get the datagram packet into a string
- 5. Display the string

Client Side

- 1. Import net and io packages
- 2. Create a datagram socket and datagram packet
- 3. Get input from the user and convert the string into a datagram packet
- 4. send the datagram packet to the server through serve port

Sample output:

rstRanke F:\JAVA\BIN> javac client.java F:\JAVA\BIN> java client Client is sending data to the server Hai Hello how are you F:\JAVA\BIN> javac server.java F:\JAVA\BIN> java server Server is waiting for data received from client Hai Hello how are you



Result:

Thus the program for implementing simple chat application using UDP has been executed successfully.

Outcome:

Thus the course outcome of creating a java program using protocol –UDP (CO4) has been attained.

Applications:

1. Chat application of 2 PCs, Yahoo Messenger, Face book Messenger.

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Expt.No.6(a):

INVOKE SERVLETS FROM HTML

Aim:

To write a java program to invoke servlets from HTML forms

Software requirements:

Jdk 7, Internet Explorer

Hardware requirements:

Any window OS

Algorithm:

- 1. Write a client side HTML program (client.html) with the following:
 - i. Insert a <form> that contains the fields such as text, password and one submit button
- 2. Write a java servlet program (server.java) with the following:
 - ii. Define a class server that extends the property of the class GenericServlet
 - iii. Handle the request from the client by using the method service() of GenericServlet class. Get the parameter names from the HTML form by using the method getParameterNames() Get the parameter values from the HTML forms by using the method getParameter()
 - iv. Send the response to the client by using the method of PrintWriter class
- 3. Compile the java source code (server.java).
- 4. Run the HTML program (client.html).
- 5. Submit the form data to the server.

Procedure to run this program on Netbeans

- 1. Start Netbeans IDE.Now Select File->New Project
- 2. In the New Project Dialog box that appears select Java Web(Web Application).
- 3. Now "New Web Application" Dialog box appears
- 4. Give the Project Name as "ServletApplication". Click Next twice and then Finish.
- 5. Now a web application named ServletApplication is created with a default page "index.jsp". There write the code for HTML forms
- 6. Then right click on the WEB-INF folder and select New-> Servlet. Give the name of the servlet as "MyServlet", click Next. In the next dialog that appears please make sure "Add information to deployment descriptor" checkbox is selected. Now click next and then finish
- 7. Write the code for Servlet in it. To compile the file, right click on index.jsp and then select "compile After compiling, again right click on index.jsp and select "Run file".
- 8. Now the browser(use firefox) will open and verify the output.

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Sample output:

(+)	localhost:9314/WebApplication16/index.jsp	☆ マ C 🛿 🗧 Google	٩	-	÷	⋒
Most Vis	sited 📋 Getting Started 🛄 Suggested Sites 🛄 Web Slice Gallery					
Ente	er your Details					
Name	Hema					
Reg No	410712205022					
NPM M	ark 98					
Wt Mark	95					
NM Mar	98 k					
CNS Ma	96 urk					
ES Mark	92					
OOAD N	Mark 95					
Submit	Query					
	ccalhost:9314/WebApplication16/MyServlet	☆ マ C 8 - Google	٩	•		俞
	sited 🔄 Getting Started 🔄 Suggested Sites 💭 Web Slice Gallery		~			111
	Name :					
	Hema					

Hema Reg No :410712205022 Vour Mark Details Subjects Mark Grade Subjects 98 8 Subjects 92 8 Subjects 95 8	Name :						
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Sub1 98 S Sub2 95 S Sub3 98 S Sub4 96 S Sub5 92 S							
Sub1 98 S Sub2 95 S Sub3 98 S Sub4 96 S Sub5 92 S							
Sub2 95 S Sub3 98 S Sub4 96 S Sub5 92 S	Su	ıbjects]	Mark	Grade			
Sub3 98 S Sub4 96 S Sub5 92 S	s	Sub1	98	S			
Sub4 96 S Sub5 92 S	s	Sub2	95	S			
Sub5 92 S	s	Sub3	98	S			
	s	Sub4	96	S			
Sub6 95 S	s	Sub5	92	S			
	s	Sub6	95	S			

.Result: Thus the program for invokes the servlet from html is written and executed successfully.



Expt.No.6(b):

INVOKE SERVLETS FROM APPLETS

Aim:

To write a java applet program that invokes servlet

Software requirements:

Jdk 7, Internet Explorer, Tomcat Server

Hardware requirements:

Any window OS

Algorithm:

- 1. Write a java applet program (AppletClient.java) with the following:
 - i. Define the class AppletClient which extends the property of the class Applet and implements the interface ActionListener.
 - ii. Define the objects for Button and add the button in the init() method of Applet class.
 - iii. Make the button to listen the action by using the method addActionListener().
 - iv. Set the URL of the servlet program by using the object of the class URL.
 - v. Define the object for AppletContext and display the response from the server using the method showDocument().
- 2. Create an HTML file (AppletClient.html) that contains the applet tag and pass the class name to applet
- 3. Write a simple servlet program (MyServer.java) that contains any response message.
- 4. Run the HTML file (AppletClient.html) that contains the corresponding applet code.
- 5. Click the button on the applet window in order to invoke the servlet program.

Sample output:



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File Edit View Favorites Tools Help	
🜀 Back 🕤 🕥 🔹 🗟 🐔 🔎 Search 🤺 Pavorites 🤣 😥 - 🌺 📼 - 🛄 🚛 🏭	3
Address D:\)dk1.5.0\bin\Servlet.html	v 🔁 Go
Enter Student's	s Info in the following Table
Enter Student's	The fit the following Table
Roll_no	08CS38
Students Name	Selva
Student Address	rs Chennai
Phone	9123456789
Total Marks	24
	Submit
	5
2) Done	S My Computer
Start Doc1 - Microsoft Word 🔄 Student's Information	🤹 4141 PM

Result:

Thus the program for invokes the servlet from applets is written and executed successfully.

Outcome:

Thus the course outcome of creating a java program using applet and also implement program in java to invoke servlets from HTML forms and applets (CO5) has been attained.

Applications:

- 1. Design and implement web pages like Online Editor and Online Compiler to execute programs.
- 2. Design and implement web pages like Changing of Color, Creating separate HDFC login page.

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Expt.No.:7 ONLINE DATA BASE APPLICATION USING SERVLET

Aim:

To create an online database application using JDBC-ODBC with Servlet

Software requirements:

Jdk 7, Internet Explorer, Tomcat Server

Hardware requirements:

Any window OS

Algorithm:

The General steps to follow in order to run a servlet are:

- 1. Compile the servlet program using an appropriate compiler version.
- 2. Copy the resulting .class file to the appropriate directory for your Java-servlet capable web server. (for

apache we need to store the .class file in webapps/webinf/classes)

- 3. Now we need to link the servlet class file with the server by using web.xml
- 4. Start / Restart the apache server
- 5. Create a database with proper fields in a table.
- 6. Make a connection with database through dsn and database of.mdb file.
- 7. Navigate to the URL corresponding to your servlet. (http://localhost:8080/filename)

Connection through Servlet with JDBC-ODBC

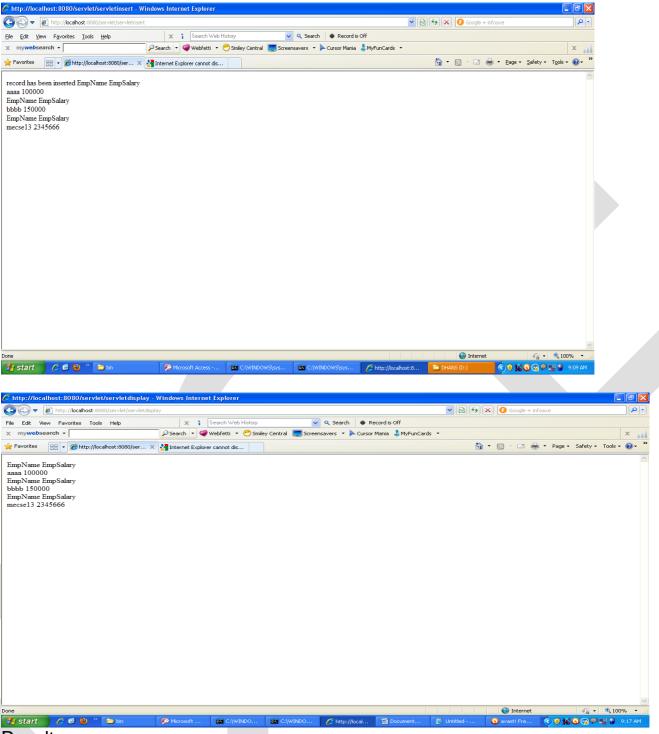
- 1. Create an JDBC-ODBC connection to a database
- 2. Open the database connection
- 3. Execute a SQL statement
- 4. Process the results
- 5. Close the connection to the database.

Sample output:

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Result:

Thus the online application of servlet using database was executed successfully.

Outcome:

Thus the course outcome of implementing program in java to create three tiers Architecture using JSP database for conducting online examination and for displaying student mark list for the student (CO6) has been attained.

Applications:

1. Design and Implement a Library Management System.



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- 2. Design and Implement a Bank Management System.
- 3. Design and Implement an Online Quiz

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Expt.No.8:

LOCKING SERVER ITSELF

Aim:

To create a servlet program locks itself to a particular server IP address and port number

Software requirements:

Jdk 7, Internet Explorer, Tomcat Server

Hardware requirements:

Any window OS

Algorithm:

- 1.A Servlet locks itself to a particular server ip address and port number.
- 2. It requires an init parameter key that is appropriate for its server IP address and port before it unlocks itself and handles a request.
- 3. This servlet has no class or instance variables associated with the locking, so as to simplify synchronization issues.
- 4. It contains the algorithm used to match a key with a server host and port.
- 5. The key must be a 64-bit number equal to the logical not (~)of the 32-bit IP address Concatenated with the 32-bit port number.
- 6. Get the 32-bit IP address and concatenate with the 32-bit port number.

The General steps to follow in order to run a servlet are:

- 1. Compile the servlet program using an appropriate compiler version.
- 2.Copy the resulting .class file to the appropriate directory for your Java-servlet capable web server. (for apache we need to store the .class file in webapps/webinf/classes)
- 3. Now we need to link the servlet class file with the server by using web.xml
- 4. Start / Restart the apache server
- 5. Navigate to the URL corresponding to your servlet.(http://localhost:8080/filename)



Sample output:

K M spring m spring mvc lo	PRO	SRA S httck	× > +	+ -			×
(i) servlets.com/jservlet2/examp	G	Q Search	☆ 自		•	>>	≡
Pirated!							
				and the second se			

Result:

Thus the servlet program of lock server itself was executed successfully.

Outcome:

Thus the course outcome of implementing program in java to create three tiers Architecture using JSP and database for conducting online examination and for displaying student mark list for ercor the student (CO6) has been attained.

Applications:

1. Designing a Web page like locked a system within 10 minutes, switch user locking by 15 minutes and so on.



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Expt.No.: 9

SESSION TRACKING IN SERVLET

Aim:

To write a servlet program using HTTP Servlet

Software requirements:

Jdk 7, Internet Explorer, Tomcat Server

Hardware requirements:

Any window OS

Algorithm:

The General steps to follow in order to run a servlet are:

1. Compile the servlet program using an appropriate compiler version.

2. Copy the resulting .class file to the appropriate directory for your Java-servlet capable web server. (for

apache we need to store the .class file in webapps/webinf/classes)

3. Now we need to link the servlet class file with the server by using web.xml

4. Start / Restart the apache server

5. Navigate to the URL corresponding to your servlet. (http://localhost:8080/filename)

Sample output:

🗿 Mozilla Firefox	Statement and the Walk of the Owner water and		
<u>File Edit View History B</u> ookmarks <u>T</u> ools <u>H</u> elp			
🔶 🖒 ~ 🗘 ~ 🧐 🏠 📄 http://localhost:8080/servlets-ex	amples/servlet/SimpleCounter	🏫 🖈 👻 🥂 Secure Search	م 👜 -
📓 📕 Apache Tomcat/5.5.6 - Error report 🛛 🗴 📗 Hello World!	× http://iocalhost:let/SimpleCounter ×		
Since loading, this servlet has been accessed 2 times.			
Done	😫 0.00 KB/s 0.00 MB 0 file(s) 00:00:00 🤠 💽 🛃 👔	TT TO D D TT Count	₽ ₩McAfeer ?
	A REAL PROPERTY AND A REAL	IV 🤮 🦉 Y 🧕 🛛	😼 📴 🦸 🚙 🌗 🛛 2:05 PM 🔤
sult:			
Thus a servlet program using HT	TP Servlet is created and e	executed successfully	ſ.



Outcome:

Thus the course outcome of Session and Cookies information available in the server which is stored in JSP and Servlet (CO6) has been attained.

Applications:

- 1. Display the web page details of Every Web Site's Home Page (College).
- 2. Check the valid users of Web sites like designing notification mail to personal id in Bank.

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3. Designing a web page to display number of times visited the same web page.



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Expt.No.: 10

SESSIONS & COOKIES IN SERVLET

Aim:

To create a web application using session and cookie using SERVLET

Software requirements:

Jdk 7, Internet Explorer, Tomcat Server

Hardware requirements:

Any window OS

Algorithm:

The General steps to follow in order to run a servlet are:

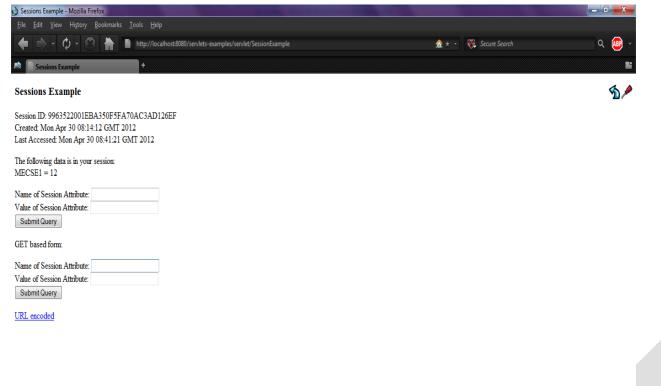
- 1. Compile the servlet program using an appropriate compiler version.
- 2. Copy the resulting .class file to the appropriate directory for your Java-servlet capable web server. (for apache we need to store the .class file in webapps/webinf/classes)
- 3. Now we need to link the servlet class file with the server by using web.xml
- 4. Start / Restart the apache server
- 5. Navigate to the URL corresponding to your servlet.(http://localhost:8080/filename)

Sample output:

🗿 Cookies Example - Mozilla Firefox				
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp				
🔶 🖒 - 🗘 - 😢 🟠 🗈 http://localhost:8080/servlets-exam	nples/servlet/CookieExample		🏠 🛧 👻 😻 Secure Search	Q 🐠 ~
🛤 📄 Apache Tomcat/5.5.6 - Error report 💿 🗙 📄 Hello World!	Cookies Example	× +		
Cookies Example				5/
Your browser is sending the following cookies: Cookie Name: Geetha Cookie Vahe: 12				
Cookie Name: Akilram Cookie Value: 25				
Cookie Name: JSESSIONID Cookie Value: 9963522001EBA350F5FA70AC3AD126EF				
You just sent the following cookie to your browser: Name: MECSE Value: 18				
Create a cookie to send to your browser				
Name: Value: Submit Query				

Done	😫 0.00 KB/s 0.00 MB 0 file(s) 00:00:00 💩 🔯 🛃 😿 🖾 💭 🐺	Secure Search
		🏷 🥼 👺 🇚 🥑 隆 🛱 🦊 🐗 🌗 2:09 PM 🔤







Result:

Thus the sessions servlet and cookie servlet was executed successfully.

Outcome:

Thus the course outcome of Session and Cookies information available in the server which is stored in JSP and Servlet (CO6) has been attained.

Applications:

- 1. Displaying Results in Anna University Web site.
- 2. Displaying School Students Results.
- 3. Track the Bus or Cab through Sessions.



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Expt.No.11:

JSP STRUTS FRAMEWORK

Aim:

To develop strut application to validate the user name and password

Software requirements:

Jdk 7, Internet Explorer, Tomcat Server

Hardware requirements:

Any window OS

Algorithm:

- 1. Setting Up a Struts Application
- 2. Creating JSP Pages
 - i. Creating a Login Page
 - ii. Creating a Success Page
- 3. Creating an Action Form Bean
- 4. Creating an Action Class
- 5. Implementing Validation
 - Accessing Bean Data and Preparing a Forwarding Condition i.
 - ii. Setting Up an Error Message
- stRanker.com 6. Adding forward Entries to struts-config.xml
- 7. Configuring and Running the Application
 - Setting the Welcome Page i.
 - ii. Attaching a Stylesheet
 - iii. Running the Application

Sample output:

- This e-mail is an invalid e-mail address.
- Password can not be less than 6 characters.

Login to our site	
E-mail:	
Password:	
Login	

Login Failure

E-mail: admin@yahoo.co.in. Password: admin.



Result:

Thus the development of struts application is validated and implemented successfully.

Outcome:

Thus the course outcome of implementing a program using AJAX, Spring, Struts and Web services (CO9) has been attained.

Applications:

- 1. Designing a web page like Java Web Tutor.
- 2. Online Accounting
- 3. Displaying of E-Books

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Expt.No.12

SPRING FRAMEWORK

Aim:

To develop the spring application

Software requirements:

Jdk 7, Internet Explorer, Tomcat Server

Hardware requirements:

Any window OS

Algorithm:

- 1. Create web project and spring frame work.
- 2. Configure dispatcher servlet.
- 3. Create form beans/Domain objects.
- 4. Create controller by extending SimpleForm Controller.
- 5. Set command object and override onsubmit method.
- 6. Create view ,set command object.
- 7. Test your app.

Sample output:

Login page

Sample output:			on
Login page			Let.
User Name:	GEETHA	25	
password:	****	Sth	
Login		KIRS .	
New User?Register		2.	
	· V	5	

Hello World! from main page

Result:

Thus the spring application was executed successfully.



Outcome:

Thus the course outcome of implementing a program using AJAX, Spring, Struts and Web services (CO9) has been attained.

Applications:

- 1. Data access in Spring Framework.
- 2. ERP
- 3. Spring Boot

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PROGRAM USING AJAX

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Expt.No. 13:

Aim:

To develop a simple program using AJAX

Software requirements:

Jdk 7, Internet Explorer, Tomcat Server

Hardware requirements:

Any window OS

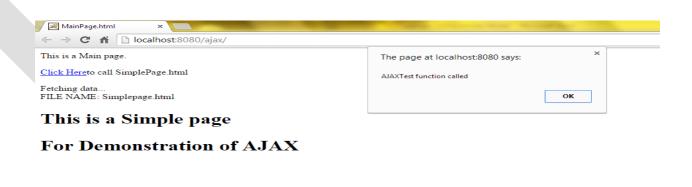
Algorithm:

- Use JavaScript to initialize the XML HTML request object. 1.
- 2. Use HTML to create areas for user input and output.
- 3. Use JavaScript to send the user inputs to a server.
- 4. Process the data on a server use JavaScript to process any response from the server.
- Display the contents of requested file. 5.

Sample output:



For Demonstration of AJAX



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Result:

Thus the program for demonstrating Ajax is written and executed successfully.

Outcome:

Thus the course outcome of implementing a program using AJAX, Spring, Struts and Web services (CO9) has been attained.

Applications:

- 1. Provide a Web service through JSON web pages.
- 2. Provide a Web service like Online Shopping



Expt.No.14: AIR LINE RESERVATION SYSTEM USING WS

Aim:

To develop the scenario of two web Services- an airline service and a travel agent and the travel agent is searching for an airline using Web Services and Data base

Software requirements:

Jdk 7, Internet Explorer

Hardware requirements:

Any window OS

Algorithm:

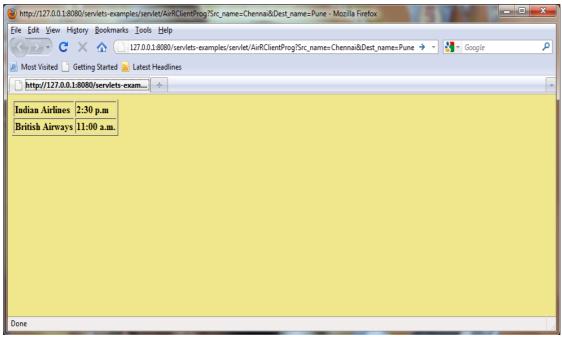
- 1. Define the service's interface. This is done with WSDL
- 2. Implement the service. This is done with Java
- 3. Define the deployment parameters. This is done with WSDD and JNDI
- 4. Compile everything and generate a GAR file. This is done with Ant
- 5. Deploy service. This is also done with a GT4 tool

Sample output:

AIRLINE RESERVATION SYSTEM - Mozilla Firefox				- • ×		
<u>File Edit View History Bookmarks Tools H</u> elp						
🕼 🖸 🕻 🗶 🔥 🗋 file:///C:/tomcat50-jwsdp/webapps/AirReserva	tionClient/WEB-INF/classes/	InputForm.html	☆ 🔹 🚼 - Google	٩		
🧟 Most Visited 📋 Getting Started 🔜 Latest Headlines						
AIRLINE RESERVATION SYSTEM +						
Travel Agent should fill up following information to get information about the Airline						
Source city:	Chennai					
Destination city:	Pune					
Submit						
Done						



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Result:

Thus the program to develop the scenario of two web Services- an airline service and travel agent is searching for an airline using Web Services and Data base is written and executed successfully.

Outcome:

Thus the course outcome of implementing a program using AJAX, Spring, Struts and Web services (CO9) has HISTRANKET.COT been attained.

Applications:

- 1. Airline Reservation System
- 2. Online Ticket Reservation System
- 3. Amazon Web Services



Expt. No.: 1

IMAGE MAPPING

- 1. Write the syntax and tags about tables.
- 2. What are the various types of lists?
- 3. Write the description starts with <dd>.
- 4. Write about frames.
- 5. Write the scenario of links.
- 6. Can you list out the linking tags in HTML?
- 7. Define HTML
- 8. Write the syntax of href?
- 9. Compare HTML and XHTML.
- 10. What is URL?

Expt.No.: 2

STYLE SHEETS

- 1. Describe the Syntax about External / Internal Style Sheets.
- 2. Describe the Syntax about Inline Style Sheets.
- 3. What is CSS?
- 4. Define- Style sheet.
- 5. Discuss about embedded style sheets?
- 6. What are the style precedence rules when using multiple approaches?
- 7. List down the ways of including style information in a document.
- 8. Define cascading.

Expt. No.: 3 WEB FORM VALIDATION OF XML USING JS

- 1. Describe about Java Scripts
- 2. Write about XML Elements.

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- 3. What is XML?
- Differentiate XML From HTML. 4.
- 5. What is DHTML?
- 6. What are the form tags available in html?
- What is the use of submit button? 7.
- 8. What is URN?
- 9. What is URI?
- 10. Differentiate client side scripting from server side scripting.

Expt.No. 4:

PROTOCOLS

- 1. What is POP3?
- 2. What are the steps to execute POP3?
- 3. What is FTP?
- itstRanker.com 4. What is the difference between GET and POST method?
- 5. What is meant by http protocol?
- 6. How to make the connection with TCP?
- 7. Limitations of HTTP.
- 8. What is HTTP Session?
- 9.What is meant by loop back address?
- 10.What are the issues of next generation IP?

Expt.No.5: IMPLEMENTATION OF CHAT APPLICATION - UDP

- 1. What is meant by Socket :
- 2. What are the two basic protocols used for transmitting the message?
- 3. What is meant by UDP?



- 4. What is the major difference between UDP and TCP/IP Protocol?
- 5. What is IP address?
- 6. What is OSI?
- 7. What is router?
- 8. What do you mean by hub?
- 9. What is URL?
- 10. Define packet switched networks.

Expt.No.6: INVOKE SERVLETS FROM HTML , APPLET

- 1. What is applet?
- 2. Explain applet life cycle?
- 3. How will you establish the connection between the servlet and an applet?
- 4. Can we pass parameters to an applet using <param? Tag?
- 5. Compare Client and Server.
- 6. Compare swing and applet?
- 7. Differentiate between Servlet and Applet.

Expt.No.:7 ONLINE DATA BASE APPLICATION USING SERVLET

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- 1. What are servlets?
- 2. Explain servlet life cycle methods?
- 3. When doGet() method of servlet to be called?
- 4. When doPost() method of servlet to be called?
- 5. How to make database connection with servlet?
- 6. What is HttpSession?
- 7. What is CGI?
- 8. What are the SQL commands used for database in servlet?



- 9. What is tomcat server?
- 10. How sessions and cookies are used in servlet?

Expt.No.8: LOCKING SERVER ITSELF

- 1. How to read name of all filters in servlet?
- 2. What is HTTPServletRequest class?
- 3. What is a servlet?
- 4. What are common tasks performed by servlet container?
- 5. Differentiate servlet config from servletcontext?
- 6. What is URL Encoding?
- 7. When doGet() method of servlet to be called?
- 8. When doPost() method of servlet to be called?

Expt.No.: 9

SESSION TRACKING IN SERVLET

- 1. How to read name of all fileters in servlet?
- 2. What is HTTPServletRequest class?
- 3. What is a servlet?
- 4. What are common tasks performed by servlet container?
- 5. Differentiate servlet config from servletcontext?
- 6. What are the phases of servlet life cycle?
- 7. What is URL Encoding?
- 8. When doGet() method of servlet to be called?
- 9. When doPost() method of servlet to be called?
- 10. What is the need for tracking session?



Expt.No.: 10 SESSIONS & COOKIES IN SERVLET

- 1. What are cookies?
- 2. How to create a cookie using servlet?
- 3. How to read a cookie using servlet?
- 4. How do we get the database connection with servlet?
- 5. What are the uses of Servlet?
- 6. What is the use of servlet wrapper class?
- 7. What do you mean byJDBC?
- 8. Define ODBC.
- 9. List down the ways ODBC differ fromJDBC?
- 10. List down the types of drivers available in JDBC.

Expt.No.11:

JSP STRUTS FRAMEWORK

- 1. What are the main components in struts application?
- 2. Why we use Struts?
- 3. What is strut?
- 4. What are the components of struts?

Expt.No.12

SPRING FRAMEWORK

- 1. What is Spring Framework?
- 2. What are some of the important features and advantages of Spring Framework?
- 3. Name some of the important Spring Modules?
- 4. What is spring?
- 5. What is spring IOC container?
- 6. What are spring beans?

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- 7. What bean scopes does spring support?
- 8. What is Spring DAO?

Expt.No. 13: PROGRAM USING AJAX

- 1. What is Ajax?
- 2. What are Ajax applications?
- 3. What are the advantages of Ajax?
- 4. What are the disadvantages of AJAX?
- 5. What is update panel?
- 6. What are the two methods used for cross doman ajax calls?
- 7. What are the difference between ajax and javascript?
- 8. What are the extender controls?
- 9. What is ajax framework?
- 10. What are all the browsers support ajax?

Expt.No.14: AIR LINE RESERVATION SYSTEM USING WS

ercon

- 1. What is REST?
- 2. What is WSDL?
- 3. What is the SOAP encoding?
- 4. How can one access a class as a web service?
- 5. What are the steps performed by the client to access a web service?
- 6. Can you name some standards used in web services?
- 7. What are distributed technologies?