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Week1

1a) Create a Web page using html which contains a Heading, Image and 2 hyperlinks. Each hyperlink opens a new page in the same web browser. New page contains "Go Back" link that takes you to main page.

Source Code:

```
Main.html
<!DOCTYPE htmnl>
<html>
  <head>
    <meta charset='utf-8'>
    <meta http-equvi='X-UA-Compatible' content="IE=edge">
    <title> G. NARAYANAMMA INSTITUTE OF TECHNOLOGY AND
SCIENCES</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <style>
      #header{
         background-color:aquamarine;
         margin:10px;
         padding:5px;
         height:100px;
      }
      #menu{
         background-color:rgb(175, 82, 167);
         margin:10px;
         padding:5px;
         height:100px;
      }
      #content{
         height:300px;
```

```
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                                                                   Page:
       }
       img{
         float:left;
       }
       h1{
         text-align :center;
       }
       #menu a{
         padding:8px;
         display: inline-flex;
         float:inline-start;
       }
       #footer{
         background-color:rgb(160, 72, 72);
         height:25px;
       }
    </style>
  </head>
  <body>
    <div id="header">
       <img src="C:\Users\Admin\Desktop\gnits.jpeg" alt="image not found!"</pre>
height="90" width="100"/>
       <h1> G. NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCES
</h1>
    </div>
    <DIV ID="menu">
       <a href="it.html"> IT</a>
       <a href="cst.html"> CST</a>
    </DIV>
```

```
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                                                            Page:
    <div id="content">
    </div>
    <div id="footer">
      contact @ 8639460069
      </div>
  </body>
</html>
It.html
<!DOCTYPE html>
<html>
  <head>
    <meta charset='utf-8'>
    <meta http-equvi='X-UA-Compatible' content="IE=edge">
    <title> G. NARAYANAMMA INSTITUTE OF TECHNOLOGY AND
SCIENCES</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <style>
      #header{
        background-color:aquamarine;
        margin:10px;
        padding:5px;
        height:100px;
      #menu{
        background-color:rgb(175, 82, 167);
```

23251A1260 Suha Anum

Date: - -2025 Page: margin:10px; padding:5px; height:100px; } #content{ height:300px; } img{ float:left; } h1{ text-align :center; } #menu a{ padding:8px; display: inline-flex; float:inline-end; } #footer{ background-color:rgb(160, 72, 72); height:25px; } </style> </head> <body> <div id="header"> <img src="C:\Users\Admin\Desktop\gnits.jpeg" alt="image not found!"</pre>

height="90" width="100"/>

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<h1> G. NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCES </h1>

</div>

<DIV ID="menu">

 go Back

</DIV>

<div id="content">

<h2>DEPARTMENT VISION </h2>

To build a prime transformative learning community that responds swiftly to the challenges of Information Technology.

<h2>DEPARTMENT MIsSION </h2>

>

To foster an intellectual environment that delivers virtuous Information Technocrats with commitment to industry and society by strengthening the logical, analytical and applicative skills to excel academically and professionally. To inculcate good communication skills in students and introduce them to various codes of professional practices for carrying out effective team collaborations and project management in the field of IT.
<h2>PROGRAM EDUCATIONALOBJECTIVES: </h2>

PEO-1: Providing students with a compelling foundation in Engineering and

Basic

tools

PEO-2: Applying scientific and engineering methodologies using modern

and techniques in the analysis, design, implementation and evaluation of information in the field of IT.

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```
PEO-3: Promoting lifelong learning and help students in aiming for higher
      education and become successful Engineers in the society. <br>
      PEO-4: Inculcating strong communication skills, ethics and various codes of
      professional practices useful in performing effective project management
      & team collaborations and enable them to sustain and excel in various
      environments. <br>
      </div>
    <div id="footer">
      contact @ 8639460069
      </div>
  </body>
</html>
cst.html
<!DOCTYPE htmnl>
<html>
  <head>
    <meta charset='utf-8'>
    <meta http-equvi='X-UA-Compatible' content="IE=edge">
    <title> G. NARAYANAMMA INSTITUTE OF TECHNOLOGY AND
SCIENCES</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <style>
      #header{
         background-color:aquamarine;
         margin:10px;
```

Date: - -2025 Page: padding:5px; height:100px; } #menu{ background-color:rgb(175, 82, 167); margin:10px; padding:5px; height:100px; #content{ height:300px; } img{ float:left; } h1{ text-align :center; } #menu a{ padding:8px; display: inline-flex; float:inline-end; } #footer{ background-color:rgb(160, 72, 72); height:25px; }

</style>

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```
</head>
  <body>
    <div id="header">
      <img src="C:\Users\Admin\Desktop\qnits.jpeg" alt="image not found!"</pre>
height="90" width="100"/>
      <h1> G. NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCES
</h1>
    </div>
    <DIV ID="menu">
      <a href="main.html"> go Back</a>
    </DIV>
    <div id="content">
      <h2><b>DEPARTMENT VISION </b> </h2>
      To build a prime transformative learning community that
        responds swiftly to the challenges of Information Technology. 
      <h2><b>DEPARTMENT MIsSION </b> </h2>
      >
```

To foster an intellectual environment that delivers virtuous Information Technocrats with commitment to industry and society by strengthening the logical, analytical and applicative skills to excel academically and professionally. To inculcate good communication skills in students and introduce them to various codes of professional practices for carrying out effective team collaborations and project management in the field of IT.
<h2>PROGRAM EDUCATIONALOBJECTIVES: </h2>

PEO-1: Providing students with a compelling foundation in Engineering and Basic

Sciences that will further help them conduct investigations of complex

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problems.

PEO-2: Applying scientific and engineering methodologies using modern tools

and techniques in the analysis, design, implementation and evaluation of information in the field of IT.

PEO-3: Promoting lifelong learning and help students in aiming for higher education and become successful Engineers in the society.


```
</div>
</div>
<div id="footer">

contact @ 8639460069

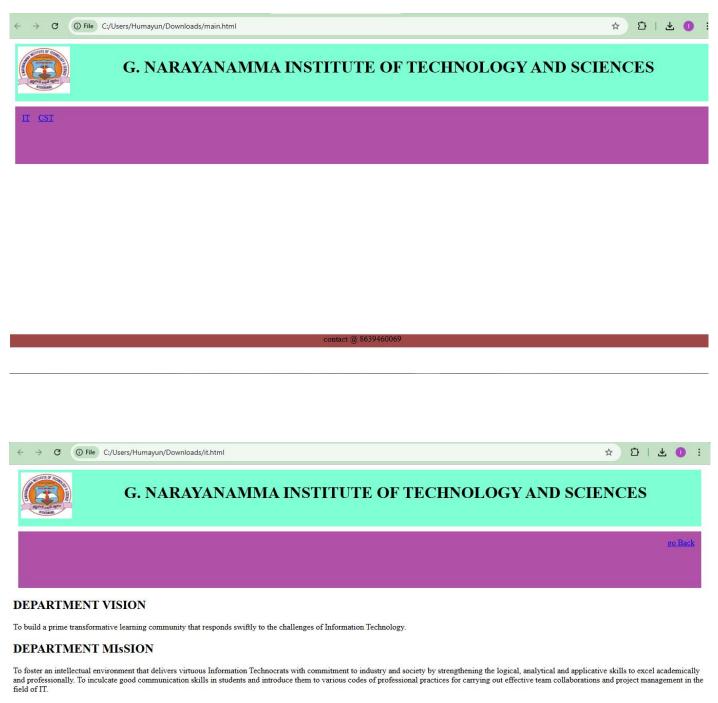
</div>
</body>
```

</html>

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Output:

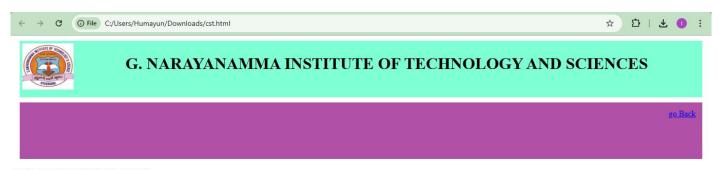


PROGRAM EDUCATIONALOBJECTIVES:

- PEO-1: Providing students with a compelling foundation in Engineering and Basic Sciences that will further help them conduct investigations of complex problems. PEO-2: Applying scientific and engineering methodologies using modern tools and techniques in the analysis, design, implementation and evaluation of information in the field of IT. PEO-3: Promoting lifelong learning and help students in aiming for higher education and become successful Engineers in the society.

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DEPARTMENT VISION

To build a prime transformative learning community that responds swiftly to the challenges of Information Technology.

DEPARTMENT MISSION

To foster an intellectual environment that delivers virtuous Information Technocrats with commitment to industry and society by strengthening the logical, analytical and applicative skills to excel academically and professionally. To inculcate good communication skills in students and introduce them to various codes of professional practices for carrying out effective team collaborations and project management in the field of IT.

PROGRAM EDUCATIONALOBJECTIVES:

PEO-1: Providing students with a compelling foundation in Engineering and Basic Sciences that will further help them conduct investigations of complex problems. PEO-2: Applying scientific and engineering methodologies using modern tools and techniques in the analysis, design, implementation and evaluation of information in the field of IT. PEO-3: Promoting lifelong learning and help students in aiming for higher education and become successful Engineers in the society.

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1b. Write a HTML program to create a Registration Form, which contains User Name, Password, Date of Birth, Gender, Mail-id, Contact number, Address and Submit button.

```
Source Code:
<!DOCTYPE html>
<html>
<head>
  <title>Registration Form</title>
</head>
<body>
  <h2>Registration Form</h2>
  <form>
    <label>Username:</label><br>
    <input type="text" name="username"><br><br>
    <label>Password:</label><br>
    <input type="password" name="password"><br><br>
    <label>Date of Birth:/label><br>
    <input type="date" name="dob"><br><br>
    <label>Gender:</label><br>
    <input type="radio" name="gender" value="male"> Male<br>
    <input type="radio" name="gender" value="female"> Female<br>
    <input type="radio" name="gender" value="other"> Other<br>
    <label>Email ID:</label><br>
    <input type="email" name="email"><br><br>
    <label>Contact Number:/label><br>
    <input type="tel" name="contact"><br><br>
    <label>Address:</label><br>
```

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<textarea name="address" rows="4" cols="30"></textarea>

<input type="submit" value="Submit">
</form>
</body>
</html>

Output:

Registration Form

Username:	
inshirah	
Password:	
•••••	
Date of Birth:	
10-04-2005	
Gender:	
O Male	
Female	
Other	
Email ID:	
23251A1243@gmail.com	
Contact Number:	
Contact Number: 8639460069	
Address:	
8639460069 Address:	

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Week 2:

2a) Create a web page to demonstrate Position Property in CSS.

Source Code:

```
<!doctype html>
<head>
  <title> Week2a</title>
  <style>
    #w{
       background-color: bisque;
       text-align:center;
       width: 1735px;
       height: 164px;
       position: fixed;
       padding: 10px;
    }
    #header{
        background-color: rgb(137, 197, 125);
       text-align:center;
       width: 1780px;
       height: 170px;
       position: sticky;
       top:70px;
       padding: 17px;
    }
     #body{
        background-color: rgb(196, 131, 192);
       width: 1720px;
```

Date: - -2025 Page: height: 235px; position: static; padding: 10px; } #body2{ background-color: rgb(243, 143, 113); width: 1777px; height: 722px; position: relative; } #footer{ background-color: rgba(168, 109, 207, 0.685); text-align:center; width: 1773px; height: 659px; position: absolute; } </style> </head> <body> <div id="w"> <h1> Welcome to my webpage!!</h1> </div> <div id="header"> <h2> G. Narayanamma Institute of Technology and Sciences </h2> </div> <div id="body">

These courses are available in various disciplines such as engineering. At the UG level, GNITS offers popular courses like B.Tech in Computer Science and Engineering, B.Tech in Artificial Intelligence and Machine Learning, B.Tech in Data Science, and B.Tech in Information Technology.

While at the PG level, courses like M.Tech in Computer Science and Engineering, M.Tech in Electronics and Communication Engineering, and M.Tech in VLSI Design are offered.

```
</DIV>
<div id="footer">
 You have reached at the end of the page
<h2> Thank you!!</h2>
<div>
</body>
</html>
```

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Output:

Welcome to my webpage!! G. Narayanamma Institute of Technology and Sciences This webpage is created by Inshirah. I am currently in my III year of Btech in Information Technology This is my 3-1 semester in which im learning about FSD(FULL STACK DEVELOPMENT). G. Narayanamma Institute of Technology & Science (GNITS) offers a total of 22 courses at undergraduate (UG) and postgraduate (PG) levels. These courses are available in various disciplines such as engineering. At the UG level, GNITS offers popular courses like B Tech in Computer Science and Engineering, B.Tech in Artificial Intelligence and Ma Technology. While at the PG level, courses like M.Tech in Computer Science and Engineering, M.Tech in Electronics and Communication Engineering, and M.Tech in VLS1 Design are offered. You have reached at the end of the page Thank you!!

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2b) Create a Newspaper style Design to print minimum 2 articles using HTML and CSS.

Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <title>Chocolate Newsletter</title>
 <style>
                      background-color: #fdf6f0;
                                                    font-family: 'Georgia', serif;
           body {
color: #4e342e;
                   padding: 40px;
  }
  .container {
                 max-width: 1000px;
                                         margin: auto;
                                                           display: flex;
  }
  .column {
   flex: 1;
   background-color: #fff8e1;
                                  padding: 10px;
                                                     border-radius: 8px;
                                                                            box-
shadow: 0 0 12px rgba(0, 0, 0, 0.1);
                                   margin-bottom: 40px; font-size: 2em;
              text-align: center;
                                                                            color:
  } h1 {
#3e2723;
      h2 {
                                  margin-bottom: 15px;
              color: #5d4037;
      ul {
   margin-left: 20px;
    li {
   margin-bottom: 10px;
                             padding-left: 10px;
           width: 100%;
                             height: 200px;
  img {
                                               margin-top: 15px;
  } p {
   margin-bottom: 15px;
  }
 </style>
```

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</head>

<body>

<h1>Chocolate Lovers</h1>

<div class="container">

<div class="column"> <h2>Chocolate Origins & Types</h2>

Chocolate originates from the seeds of the cacao tree, known as Theobroma cacao, which means "food of the gods". Native to Central and South America, cacao has been consumed by humans for over 3,000 years.

Dark Chocolate: Rich in cocoa, less sugar, and strong
flavor. Often considered the healthiest form.

Milk Chocolate: A smooth blend of cocoa, milk, and sugar
— loved for its creamy texture.

White Chocolate: Contains cocoa butter, milk, and sugar, but no cocoa solids.

Ruby Chocolate: Naturally pink, fruity-tasting chocolate introduced in

2017.

<ima

src="https://i.pinimg.com/originals/b6/03/b6/b603b668f5603d55ad32a12b9ac38d12.jpg" alt="Chocolate Types" height="50px" width="50px">

</div>

<div class="column">

<h2>Production & History</h2>

The journey from bean to bar involves several careful steps. Cacao beans are fermented, dried, roasted, and ground to form a thick paste called chocolate liquor — the base of all chocolate products.

<l

Ancient Use: The Mayans and Aztecs used cacao to
make ceremonial drinks and even as currency.

European Introduction: Spanish explorers brought
chocolate to Europe in the 1500s, where sugar was added.

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Modern Manufacturing: Industrialization allowed mass production of chocolate bars by the 1800s.

Today: Chocolate is a global favorite, appearing in
desserts, beverages, cosmetics, and even health foods.

<img

src="http://1.bp.blogspot.com/i4LOH6cEbfs/T42vByl5VBI/AAAAAAAAAAAAAA/1PSBfjtmdbo/s1600/box-of-chocolate11297440000LZg.jpg" alt="Chocolate History" height="5px" width="50px">

</div>

</div>

</body>

</html>

Output:



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Week 3:

3 a) Create a web page to demonstrate Position Property in CSS.

```
Source Code:
```

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Program</title>
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <style>
    #box {
       width: 300px;
       margin: 40px auto;
       padding: 20px;
       border-radius: 10px;
       text-align: center;
       font-family: Arial, sans-serif;
       box-shadow: 0 2px 2px rgba(0,0,0,0.2);
    }
    #message {
       font-size: 18px;
       margin-bottom: 20px;
       transition: color 0.3s ease;
    }
    #button:hover {
       background-color: hsl(320, 80%, 50%);
```

Script.js

```
document.addEventListener("DOMContentLoaded", () => {
  const msg = document.getElementById("message");
  const btn = document.getElementById("button");

let cb = 0, hue = 0;

btn.addEventListener("click", () => {
   cb++;
   if (cb == 1) {
      msg.textContent = "Clicked once";
   } else if (cb == 2) {
      msg.textContent = "You clicked twice & dynamic";
   } else {
      msg.textContent = "You clicked " + cb + " times";
   }
```

```
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hue = (hue + 40) % 360;
msg.style.backgroundColor = `hsl(${hue}, 70%, 50%)`;
});
});
```

Output:



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3 b)Write a javascript program to validate registration page using regular expression

Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8" />
 <meta name="viewport" content="width=device-width, initial-scale=1" />
 <title>Registration Form</title>
 <style>
  h2 {
   text-align: center;
   font-family: Tahoma, sans-serif;
  }
  body {
   background-color: rgb(144, 199, 248);
  }
  form {
   text-align: center;
  }
  .error {
   color: red;
   font-size: 0.9em;
  }
 </style>
</head>
<body>
 <h2>Registration Form</h2>
 <form id="regForm" onsubmit="return validateForm()">
```

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```
<label for="name">Name: </label>
<input type="text" id="name" name="name" />
<div id="nameError" class="error"></div>
<br /><br />
<label for="pwd">Password: </label>
<input type="password" id="pwd" name="pwd" />
<div id="pwdError" class="error"></div>
<br /><br />
<label for="birthday">DOB: </label>
<input type="date" id="birthday" name="birthday" />
<div id="dobError" class="error"></div>
<br /><br />
<label>Gender: </label>
<input type="radio" id="male" name="gender" value="MALE" />
<label for="male">Male</label>
<input type="radio" id="female" name="gender" value="FEMALE" />
<label for="female">Female</label>
<div id="genderError" class="error"></div>
<br /><br />
<label for="contact">Contact: </label>
<input type="text" id="contact" name="contact" />
<div id="contactError" class="error"></div>
<br /><br />
```

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```
<label for="address">Address: </label>
 <input type="text" id="address" name="address" />
 <div id="addressError" class="error"></div>
 <br /><br />
 <label for="email">Email: </label>
 <input type="email" id="email" name="email" />
 <div id="emailError" class="error"></div>
 <br /><br />
 <input type="submit" value="Submit" />
 <input type="reset" value="Reset" />
</form>
<script>
function validateForm() {
  document.querySelectorAll('.error').forEach(e => e.textContent = ");
  let valid = true;
  const name = document.getElementById('name').value.trim();
  if (name === ") {
   document.getElementById('nameError').textContent = 'Name is required';
   valid = false;
  }
  const pwd = document.getElementById('pwd').value;
  if (pwd === ") {
```

Date: - -2025 Page: document.getElementById('pwdError').textContent = 'Password is required'; valid = false; } else if (pwd.length < 6) { document.getElementById('pwdError').textContent = 'Password must be at least 6 characters'; valid = false; } const dob = document.getElementById('birthday').value; if $(dob === ") {$ document.getElementById('dobError').textContent = 'Date of Birth is required'; valid = false: } const genderMale = document.getElementById('male').checked; const genderFemale = document.getElementById('female').checked; if (!genderMale && !genderFemale) { document.getElementById('genderError').textContent = 'Please select a gender'; valid = false; } const contact = document.getElementById('contact').value.trim(); const contactRegex = $/^{d{10}}$; if (contact === ") { document.getElementById('contactError').textContent = 'Contact is required'; valid = false; } else if (!contactRegex.test(contact)) {

Date: - -2025 Page: document.getElementById('contactError').textContent = 'Contact must be 10 const address = document.getElementById('address').value.trim(); document.getElementById('addressError').textContent = 'Address is required'; const email = document.getElementById('email').value.trim(); document.getElementById('emailError').textContent = 'Email is required';

```
valid = false;
                                    } else {
                                               const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.
                                              if (!emailRegex.test(email)) {
                                                           document.getElementById('emailError').textContent = 'Invalid email format';
                                                          valid = false;
                                              }
                                   }
                                   return valid;
                     }
            </script>
</body>
</html>
```

digits';

}

}

valid = false;

if (address === ") {

valid = false;

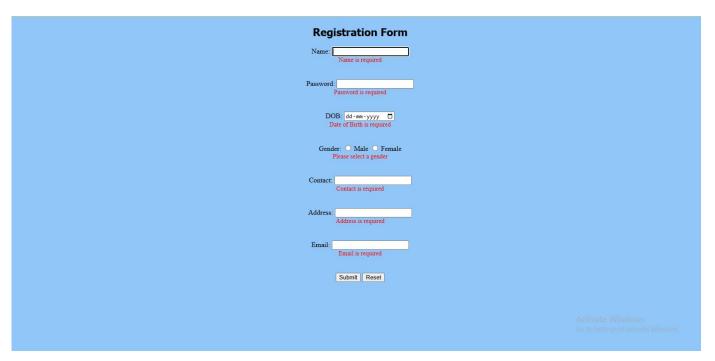
if (email === ") {

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Output:





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Week 4

4a) Write a code to hide and show an element in a periodic interval without any action from the user using JQuery.

Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
  <style>
     .id1{
       text-align:center;
       background-color: lightpink;
       padding:10px;
       width:1340;
       margin: 20px;
       font-size:25px;
    }
  </style>
  <script>
    $(document).ready(function(){
       setInterval(function(){
         $(".id1").fadeToggle(2000);
       },3000);
    });
```

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Output:

Toggling!!!

Hello, Hi Welcome to FSD Lab

Activate Windows
Go to Settings to activate Windows

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Toggling!!!

Hello, Hr Welcome to FSD Lith.

Activate Windows
Go to Settings to activate Windows.

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4b) Write a program to create and Build a star rating system using JQuery.

Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
<title>FeedBack Rating System </title>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
<style>
  #b{
     background-color: rgb(121, 150, 216);
     text-align: center;
  }
 .rating {
  display: inline-block;
  font-size: 45px;
  cursor: pointer;
  color: #ccc;
 }
 .rating .star {
  margin-right:30px;
  display: inline-block;
  transition: color 0.2s;
 }
 .rating .star.filled {
  color: rgb(244, 219, 76);
 }
```

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```
</style>
</head>
<body id="b">
  <h2> Give your FeedBack! </h2>
<div class="rating">
 <span class="star" data-value="1">&#9733;</span>
 <span class="star" data-value="2">&#9733;</span>
 <span class="star" data-value="3">&#9733;</span>
 <span class="star" data-value="4">&#9733;</span>
 <span class="star" data-value="5">&#9733;</span>
</div>
User has rated : <span id="rating-value">0</span>
stars
<script>
  $(function() {
  let selectedRating = 0;
  $('.rating .star').on('mouseenter', function() {
    let rating = $(this).data('value');
    highlightStars(rating);
  });
  $('.rating .star').on('mouseleave', function() {
    highlightStars(selectedRating);
  });
  $('.rating .star').on('click', function() {
    selectedRating = $(this).data('value');
    $('#rating-value').text(selectedRating);
    highlightStars(selectedRating);
```

Date: - -2025 Page: **})**; function highlightStars(rating) { \$('.rating .star').each(function() { let starValue = \$(this).data('value'); if (starValue <= rating) {</pre> \$(this).addClass('filled'); } else { \$(this).removeClass('filled'); } **})**; } **})**; </script> </body>

Output:

</html>

+ + + +

User has rated: 0 stars

Give your FeedBack!

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Week 5:

a) Write a program to demonstrate ReactJS Class and Instance.

```
Source Code:
```

```
App.jsx
import React,{component} from 'react'
import './App.css'
class Student extends React.Component{
 constructor(props){
  super(props);
  this.state={enrolled:true};
 }
 render(){
  return(
   <div>
     <h2>React class and Instance</h2>
     >
      Roll No: {this.props.rollno}<br />
      Name: {this.props.name}<br />
      Branch: {this.props.branch}<br />
      Locality: {this.props.locality}<br />
     </div>
  );
}
class App extends React.Component{
```

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Output:

React class and Instance

Roll No: 7234 Name: rithika Branch: IT Locality: Bowenpally

React class and Instance

Roll No: 1243 Name: inshirah Branch: IT Locality: Secunderabad

React class and Instance

Roll No: 2353 Name: priya Branch: CSE Locality: Patancheru

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5b) Write a program to create a basic calculator to perform arithmetic operations using ReactJS.

Source Code:

App.jsx

```
import React, {useState} from 'react'
function App() {
 const[inp1,setInp1] = useState();
 const[inp2,setInp2] = useState();
 const[res,setRes] = useState();
 const add = () => {
  const ans=Number(inp1)+Number(inp2);
  setRes(ans);
  alert("Result is: "+ans);
 };
 const sub = () => {
  setRes(Number(inp1)-Number(inp2));
  //to display result in alert, we follow the syntax given below
  const ans=Number(inp1)-Number(inp2);
  setRes(ans);
  alert("Result is: "+ans);
 };
 const mul = () => {
  setRes(Number(inp1)*Number(inp2));
 };
 const div = () => {
  setRes(Number(inp1)/Number(inp2));
 };
 const mod = () => {
```

Date: - -2025 Page: setRes(Number(inp1)%Number(inp2)); **}**; return (<> <div id="input"> <label htmlFor="inp1">Enter first number: </label> <input type="text" id="inp1" value={inp1} onChange={(e) => setInp1(e.target.value)}/>

 <label htmlFor="inp2" >Enter second number: </label> <input type="text" id="inp2" value={inp2} onChange={(e) => setInp2(e.target.value)}/>

 </div> <div id="opt"> <button onClick={add}>Add</button> <button onClick={sub}>Subtract <button onClick={mul}>Multiply <button onClick={div}>Divide</button> <button onClick={mod}>Modulo
 </div> <div id="output"> Result: {res}

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</div>
</>
/>

);

export default App;

Output:

Enter first	number: 10			
Enter seco	and number: 3	Ş		
Add	Subtract	Multiply	Divide	Modulo
Result: 30)			

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Week 6:

a) Demonstrate simple event handling examples using ReactJS.

Source Code:

```
import React,{ useState } from 'react'
function App() {
 const [input, setInput] = useState();
 const [msg, setMsg] = useState();
 const click = () => {
  setMsg('Button was clicked!');
 };
 const inputChange = (e) => {
  setInput(e.target.value);
 };
 return (
  <div style={{ padding: '20px' }}>
   <input
     type="text"
     value={input}
     onChange={inputChange}
   />
   You typed: {input}
   <button onClick={click}>Click Me</button>
   {msg}
```

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```
</div>
);
}
export default App;
```

Output:

Hello

You typed: Hello

Click Me

Button was clicked!

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b) Write a program to create a simple voting application system using ReactJS.

Source Code:

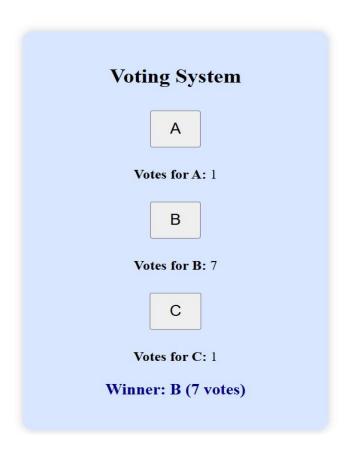
```
App.jsx
import { useState } from 'react'
import reactLogo from './assets/react.svg'
import viteLogo from '/vite.svg'
import './App.css'
function App() {
 const [c1, setC1] = useState(0)
 const [c2, setC2] = useState(0)
 const [c3, setC3] = useState(0)
 return (
  <>
   <div id="inp">
    <button id="b1" onClick={() => setC1((add1) => c1 + 1)}>
     Α
    </button>
      <strong>votes for A is </strong>{c1} 
    <button id="b2" onClick={() => setC2((add1) => c2 + 1)}>
      В
    </button>
      <strong>votes for B is </strong>{c2} 
     <button id="b3" onClick={() => setC3((add1) => c3 + 1)}>
     С
    </button>
      <strong>votes for C is </strong>{c3} 
   </div>
```

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```
</>
)
}
export default App
```

Output:



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Week 7:

a) Create a webpage to display "Hello World!" using SERVLET.

Source Code:

HelloWorld.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class HelloWorld extends HttpServlet{
  //private String msg;
  /*public void init() throws ServletException{
     msg="Hello World!";
  } */
  public void doGet(HttpServletRequest reg,HttpServletResponse res) throws
ServletException, IOException{
     res.setContentType("text/html");
     PrintWriter out=res.getWriter();
     out.println("<html><body>");
     out.println("<h1> Hello World!!!</h1>");
     out.println("</body></html>");
  }
  public void destroy(){
}
```

web.xml

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<servlet-class>HelloWorld</servlet-class>
 </servlet>
 <servlet-mapping>
 <servlet-name>HelloWorld</servlet-name>
 <url-pattern>/hello</url-pattern>
 </servlet-mapping>
</web-app>

Output:



Hello World!!!

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7 b) Implement a web application using SERVLET, which takes a name as input and on submitting it, shows a hello page. It shows start time at the right top comer of the page and provides a logout button. On clicking logout button, it should show a logout page with Thank You message with the duration of usage (hint: Use session to store name and time).

Source Code:

LoginServlet.java

```
import java.io.IOException;
import java.io.PrintWriter;
import java.util.Date;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
public class LoginServlet extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
    // Allow GET requests (browser URL or redirect) to work
    doPost(request, response);
  }
  @Override
  protected void doPost(HttpServletRequest request, HttpServletResponse
response)
       throws ServletException, IOException {
    response.setContentType("text/html");
     PrintWriter out = response.getWriter();
```

```
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  String username = request.getParameter("username");
  if (username == null || username.trim().isEmpty()) {
     out.println("<html><body>");
     out.println("<h3>Please enter a valid username.</h3>");
     out.println("<a href='login.html'>Go back</a>");
     out.println("</body></html>");
     return;
  }
  // Create session and set attributes
  HttpSession session = request.getSession();
  session.setAttribute("username", username);
  session.setAttribute("startTime", new Date());
  out.println("<html><body>");
  out.println("<h2>Welcome, " + username + "!</h2>");
  out.println("You can now <a href='logout'>Logout (GET)</a>");
  out.println("<form action='logout' method='post'>");
  out.println("<input type='submit' value='Logout (POST)'>");
  out.println("</form>");
  out.println("</body></html>");
}
```

LogOutServlet.java

}

```
import java.io.IOException;
import java.io.PrintWriter;
import java.util.Date;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
```

Date: - -2025 Page: import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse; import javax.servlet.http.HttpSession; public class LogOutServlet extends HttpServlet { @Override protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException { // Allow GET to work (so logout link works) doPost(request, response); } @Override protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException { response.setContentType("text/html"); PrintWriter out = response.getWriter(); HttpSession session = request.getSession(false); // don't create new session if (session != null) { String name = (String) session.getAttribute("username"); Date startTime = (Date) session.getAttribute("startTime"); Date endTime = new Date(); long duration = (endTime.getTime() - startTime.getTime()) / 1000; // seconds out.println("<html><body>"); out.println("<h2>Thank you, " + name + "!</h2>"); out.println("You used this application for " + duration + " seconds."); out.println("</body></html>"); session.invalidate(); // destroy session } else {

out.println("<html><body>");

```
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       out.println("<h3>No active session found!</h3>");
       out.println("</body></html>");
    }
  }
}
web.xml
<web-app>
   <servlet>
      <servlet-name>LoginServlet</servlet-name>
      <servlet-class>LoginServlet</servlet-class>
   </servlet>
   <servlet-mapping>
      <servlet-name>LoginServlet</servlet-name>
      <url-pattern>/login</url-pattern>
   </servlet-mapping>
   <servlet>
       <servlet-name>LogOutServlet/servlet-name>
       <servlet-class>LogOutServlet</servlet-class>
   </servlet>
   <servlet-mapping>
      <servlet-name>LogOutServlet/servlet-name>
      <url-pattern>/logout</url-pattern>
   </servlet-mapping>
</web-app>
```

login.html

<html>

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<head>

<title>web page</title>

</head>

<body>

<h2>Enter your name:</h2>

<form action="login" method="post">

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

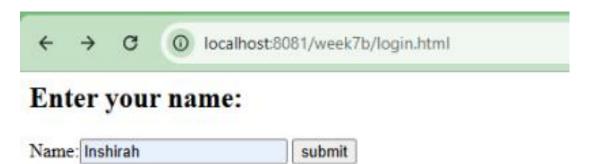
<input type="submit" value="submit"/>

</form>

</body>

</html>

Output:



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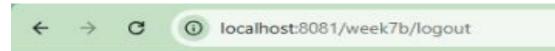
Page:



Welcome, Inshirah!

You can now Logout (GET)

Logout (POST)



Thank you, Inshirah!

You used this application for 57 seconds.

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Week 8:

a) Write a JSP program to find a factorial of the given number.

Source Code:

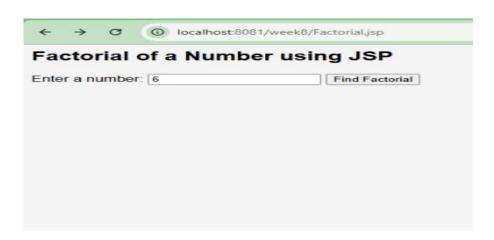
factorial.jsp

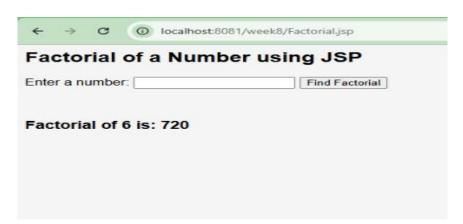
```
<@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<html>
<head>
  <title>Factorial Calculator</title>
</head>
<body style="font-family: Arial; background-color:#f5f5f5;">
  <h2>Factorial of a Number using JSP</h2>
  <form method="post" action="">
    Enter a number:
    <input type="text" name="num" required>
     <input type="submit" value="Find Factorial">
  </form>
  <br>
  <%
    // Get the number entered by the user
    String numStr = request.getParameter("num");
    if (numStr != null && !numStr.isEmpty()) {
       try {
         int num = Integer.parseInt(numStr);
         long fact = 1;
         for (int i = 1; i \le num; i++) {
            fact *= i;
         }
```

```
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out.println("<h3>Factorial of " + num + " is: " + fact + "</h3>");
} catch (NumberFormatException e) {
out.println("Please enter a valid integer!");
}
}
%>
</body>
</html>
```

Output:





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Week 9:

a) Demonstrate a simple example of Spring web MVC framework.

Source Code:

Step 1 – Create a New Maven Web Project

- 1. Open Eclipse → File → New → Maven Project
- 2. Check Create a simple project (skip archetype selection) → Next
- 3. Fill in:
 - Group Id: com.example.MySampleApp
 - Artifact Id: MySampleApp
- 4. Click Finish

```
Step 2 – Add Spring Dependencies
```

Open pom.xml and replace everything inside with this (from your PDF):

ct>

<modelVersion>4.0.0</modelVersion>

<groupId>com.example.MySampleApp</groupId>

<artifactId>MySampleApp</artifactId>

<version>1.0</version>

<packaging>war</packaging>

cproperties>

<java.version>1.8</java.version>

<spring.version>3.1.0.RELEASE</spring.version>

</properties>

<dependencies>

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-context</artifactId>

<version>\${spring.version}</version>

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```
</dependency>
  <dependency>
   <groupId>org.springframework</groupId>
   <artifactId>spring-webmvc</artifactId>
   <version>${spring.version}</version>
  </dependency>
  <dependency>
   <groupId>org.springframework</groupId>
   <artifactId>spring-orm</artifactId>
   <version>${spring.version}</version>
  </dependency>
  <dependency>
   <groupId>javax.servlet</groupId>
   <artifactId>servlet-api</artifactId>
   <version>2.4</version>
   <scope>provided</scope>
  </dependency>
  <dependency>
   <groupId>javax.servlet.jsp</groupId>
   <artifactId>jsp-api</artifactId>
   <version>2.1</version>
   <scope>provided</scope>
  </dependency>
 </dependencies>
</project>
```

Step 3 - Add web.xml

Create file:

src/main/webapp/WEB-INF/web.xml

```
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                                                                Page:
<web-app version="3.0"</pre>
     xmlns="http://java.sun.com/xml/ns/j2ee"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
     xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee
                 http://java.sun.com/xml/ns/j2ee/web-app 3 0.xsd">
 <display-name>MySampleApp</display-name>
 <servlet>
  <servlet-name>SpringDispatcher</servlet-name>
  <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-</pre>
class>
  <load-on-startup>1</load-on-startup>
 </servlet>
 <servlet-mapping>
  <servlet-name>SpringDispatcher</servlet-name>
  <url-pattern>/</url-pattern>
 </servlet-mapping>
</web-app>
Step 4 – Spring Configuration File
Create file:
src/main/webapp/WEB-INF/SpringDispatcher-servlet.xml
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
```

xmlns:mvc="http://www.springframework.org/schema/mvc"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xmlns:context="http://www.springframework.org/schema/context"

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```
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    xsi:schemaLocation="
      http://www.springframework.org/schema/beans
      http://www.springframework.org/schema/beans/spring-beans.xsd
      http://www.springframework.org/schema/mvc
      http://www.springframework.org/schema/mvc/spring-mvc.xsd
      http://www.springframework.org/schema/context
      http://www.springframework.org/schema/context/spring-context.xsd">
 <context:component-scan base-package="com.example.MySampleApp.controller"</p>
/>
 <mvc:annotation-driven />
 <bean id="viewResolver"</pre>
    class="org.springframework.web.servlet.view.InternalResourceViewResolver">
  coperty name="prefix" value="/WEB-INF/views/" />
  cproperty name="suffix" value=".jsp" />
 </bean>
</beans>
Step 5 – Create Controller Classes
Path: src/main/java/com/example/MySampleApp/controller
HomeController.java
package com.example.MySampleApp.controller;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.RequestMapping;
@Controller
public class HomeController {
  @RequestMapping("/")
  public String homePage() {
```

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```
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return "home";
```

LoginController.java

}

}

```
package com.example.MySampleApp.controller;
import javax.servlet.http.HttpServletRequest;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.RequestMapping;
@Controller
public class LoginController {
  @RequestMapping("/login")
  public String showLoginPage() {
    return "login";
  }
  @RequestMapping("/user")
  public String authenticate(HttpServletRequest request, Model model) {
    String username = request.getParameter("uname");
    String password = request.getParameter("pwd");
    if ("admin".equals(password)) {
       model.addAttribute("message", "Welcome " + username + "!!");
       return "welcome";
    } else {
       model.addAttribute("message", "Invalid User!!");
       return "errorPage";
    }
  }
```

```
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}
Step 6 - Create JSP Views
Create folder:
src/main/webapp/WEB-INF/views
Add files:
home.jsp
<h1>Hello World!</h1>
This is the home page!
<a href="login">Go to Login Page</a>
login.jsp
<h2>Login Form</h2>
<form action="user">
 Username: <input type="text" name="uname"/><br><br>
 Password: <input type="password" name="pwd"/><br><br>
 <button type="submit">Login</button>
</form>
welcome.jsp
<h1 style="color:green">${message}</h1>
errorPage.jsp
<h1 style="color:red">${message}</h1>
<a href="login">Try Again</a>
Step 7 – Run the App
```

1. Right-click project → Run As → Run on Server

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- 2. Select Apache Tomcat 9/10
- 3. Open browser →
 - o http://localhost:8080/MySampleApp/ → Home page
 - o Click *Go to Login Page* → fill in details
 - Password admin → Welcome message
 - \circ Any other password \rightarrow Error page

Done! You've run your first Spring MVC application.

Output:



Hello World!

This is the home page!

Go to Login Page

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Week 11 and 12:

CASE STUDY-1: Create a Chat module/Interface using HTML CSS and JavaScript. The chat interface primarily consists of two segments: the message header and the chat box.

Message-Header- The message header resides at the top of the chat box. It includes the user's name, avatar or profile image, and the user's last seen. Last seen is the last time the user was active.

The Chat-Box- The chat box consists of the message page and the message bottom sections.

- Message page-The message page consists of incoming and outgoing messages, as well as the avatars of the senders. It also displays the time at which each message is sent.
- The Message-Bottom-This section contains an input field where the user can type in the messages and a send button to send them.

Source Code:

script.js

```
const chatBox = document.getElementById('chatBox');
const input = document.getElementById('messageInput');
const lastSeen = document.getElementById('lastSeen');
const currentUser = {
   name: 'You',
   avatar: "av6.jpg",
};
const otherUser = {
   name: 'Rithika',
   avatar: "girl.jpg",
};
function formatTime(date = new Date()) {
   return date.toLocaleTimeString([], { hour: '2-digit', minute: '2-digit' });
}
```

```
function updateLastSeen() {
 const now = new Date();
 lastSeen.textContent = `${otherUser.name} last seen: ${formatTime(now)}`;
}
function addMessage(text, sender) {
 const messageElem = document.createElement('div');
 messageElem.classList.add('message');
 if (sender === currentUser.name) {
  messageElem.classList.add('outgoing');
 } else {
  messageElem.classList.add('incoming');
 const avatarURL = sender === currentUser.name ? currentUser.avatar :
otherUser.avatar;
 messageElem.innerHTML = `
  <img src="${avatarURL}" alt="${sender} Avatar" class="avatar" />
  <div class="message-content">
   ${escapeHTML(text)}
   <div class="message-time">${formatTime()}</div>
  </div>
 chatBox.appendChild(messageElem);
 chatBox.scrollTop = chatBox.scrollHeight;
 if (sender === otherUser.name) {
  updateLastSeen();
function escapeHTML(str) {
 const div = document.createElement('div');
```

```
div.textContent = str;
 return div.innerHTML;
}
async function getReply(userMsg) {
  const msg = userMsg.toLowerCase();
  if (msg.includes('hello') | msg.includes('hi')| msg.includes('hey')) {
   return 'Hey! Nice to hear from you.';
  }
  if (msg.includes('how are you')) {
    return "I'm good, thanks! How about you?";
  if (msg.includes('help')) {
    return 'Of course! What do you need help with?';
  }
  if (msg.includes("temperature") || msg.includes("temp")) {
    const temp = await getCurrentTemperature();
    if (!temp) {
     return "Sorry, I couldn't get the temperature right now.";
   }
    return `Current temperature is ${temp}°C.`;
  }
  // Current date and time
  if (msg.includes('date')) {
   const now = new Date();
    const cal = now.toLocaleDateString(undefined, { weekday: 'long', year: 'numeric',
month: 'long', day: 'numeric' });
    return `Today's date is ${cal}.`;
  }
```

if(msg.includes('time')){

```
const now = new Date();
    const timeStr = now.toLocaleTimeString([], { hour: '2-digit', minute: '2-digit' });
    return `Time is ${timeStr}.`;
  }
    if (msg.includes('thank')) {
  return "You're welcome!";
 if (msg.includes('bye')) {
  return 'Talk soon! Take care.';
 }
 if (msg.includes('what are you doing?')) {
  return 'Nothing, I just finished my work.\n What about you??';
 }
 if (msg.includes('samhitha')) {
  return 'ohh! i knoww herr, she is your friend. She is one of the most important
persons in your lifeee. But she doesnt agree for pani puri, whenever u ask her. haha';
 }
 return
}
function sendMessage() {
 const msg = input.value.trim();
 if (!msg) return;
 addMessage(msg, currentUser.name);
 input.value = ";
```

Date: - -2025 Page: setTimeout(async () => { const reply = await getReply(msg); addMessage(reply, otherUser.name); }, 1200); } index.html <!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8" /> <meta name="viewport" content="width=device-width, initial-scale=1" /> <title>Full Screen Chat Interface</title> <link rel="stylesheet" href="styles.css" /> </head> <body> <div class="chat-container"> <!-- Message Header --> <header class="message-header"> <div class="user-info"> <h3>Rithika</h3> Last seen: just now </div> </header> <!-- Chat Box -->

<main class="chat-box" id="chatBox"></main>

```
<!-- Message Bottom -->
  <footer class="message-bottom">
   <input
     type="text"
     id="messageInput"
    placeholder="Type your message..."
     autocomplete="off"
    onkeypress="if(event.key === 'Enter'){    sendMessage(); }"
   />
   <button onclick="sendMessage()">Send</button>
  </footer>
 </div>
<script src="script.js"></script>
</body>
</html>
styles.css
/* Reset */
* {
 margin: 0;
 padding: 0;
 box-sizing: border-box;
}
body, html {
 height: 100%;
 font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
 background: #f0f2f5;
```

Date: - -2025 Page: } .chat-container { display: flex; flex-direction: column; height: 100vh; /* full screen height */ max-width: 600px; margin: 0 auto; border: 1px solid #ccc; background: #fff; } /* Message Header */ .message-header { display: flex; align-items: center; padding: 15px 20px; background-color: #104a88; color: white; box-shadow: 0 2px 4px rgba(0,0,0,0.1); } .message-header .avatar {

width: 50px;

height: 50px;

border-radius: 50%;

margin-right: 15px;

border: 2px solid white;

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```
object-fit: cover;
}
.user-info h3 {
 font-weight: 600;
 font-size: 1.2rem;
}
.user-info p {
 font-size: 0.85rem;
 opacity: 0.85;
 margin-top: 3px;
}
/* Chat Box */
.chat-box {
 flex-grow: 1;
 padding: 15px 20px;
 overflow-y: auto;
 background: #e5ddd5;
 display: flex;
 flex-direction: column;
}
/* Messages */
.message {
 display: flex;
 margin-bottom: 15px;
```

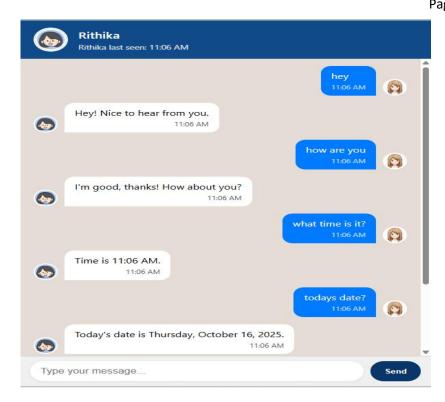
```
max-width: 80%;
}
.message .avatar {
 width: 35px;
 height: 35px;
 border-radius: 50%;
 object-fit: cover;
 margin-top: auto;
}
/* Incoming messages (left) */
.message.incoming {
 flex-direction: row;
}
.message.incoming .message-content {
 background-color: white;
 color: black;
 border-radius: 15px 15px 15px 0;
 padding: 10px 15px;
 margin-left: 10px;
 position: relative;
 word-wrap: break-word;
}
/* Outgoing messages (right) */
.message.outgoing {
```

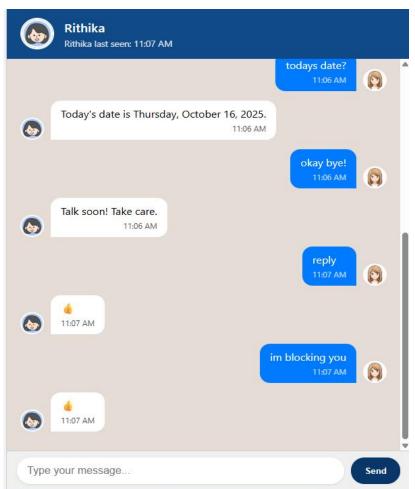
```
flex-direction: row-reverse;
 margin-left: auto;
}
.message.outgoing .message-content {
 background-color: #007bff;
 color: white;
 border-radius: 15px 15px 0 15px;
 padding: 10px 15px;
 margin-right: 10px;
 position: relative;
 word-wrap: break-word;
}
/* Timestamp */
.message-time {
 font-size: 0.75rem;
 opacity: 0.7;
 margin-top: 5px;
 text-align: right;
 user-select: none;
}
/* Message Bottom */
.message-bottom {
 display: flex;
 padding: 10px 15px;
 background: #f0f0f0;
```

```
border-top: 1px solid #ccc;
}
.message-bottom input[type="text"] {
 flex-grow: 1;
 border: none;
 border-radius: 20px;
 padding: 12px 15px;
 font-size: 1rem;
 outline: none;
 background: white;
 box-shadow: 0 1px 3px rgba(0,0,0,0.1);
}
.message-bottom button {
 background-color: #093769;
 border: none;
 color: white;
 font-weight: bold;
 padding: 12px 20px;
 margin-left: 10px;
 border-radius: 20px;
 cursor: pointer;
 transition: background-color 0.25s ease;
}
.message-bottom button:hover {
 background-color: #093769;
}
```

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Output:





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