

**University of Lucknow**



**Web Technology Lab**

**NCS-553**

**Submitted By:-**

Name: NIKHIL

Roll-No:

2310013135077

Batch:CS-AI 1 (P2)

**Submitted To:-**

Er. NAMITA SRIVASTAVA

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8.	16/10/25	Write HTML/Java scripts to display your CV in navigator, your institute website, Department website and tutorial website for specific subject.	
9.	30/10/25	Design HTML form for keeping student record and validate it using Java script.	
10.	06/11/25	Writing program in XML for creation of DTD, which specifies set of rules.	

# Output

## Resume

### Personal Information

Name	Nihal Gupta
Email	emailatnihal@pm.me
Phone Number	+91 7307200446

### Professional Summary

As a dedicated Android App Developer, I specialize in crafting efficient and intuitive mobile applications designed to simplify everyday tasks. My expertise lies in building robust, real-time solutions using Java, XML, Android Studio to develop Android Applications. I am driven by the goal of developing practical tools that empower users to accomplish their objectives effectively through their Android devices.

### Education

Course	Institution	Year of Completion
Bachelor of Technology - Computer Science Artificial Intelligence	University of Lucknow ,Lucknow, Uttar Pradesh, India, 226021	Currently Pursuing
Intermediate	City Montessori Inter College, Lakhimpur Kheri, Uttar Pradesh, India, 262701	2023
High School	City Montessori Inter College, Lakhimpur Kheri, Uttar Pradesh, India, 262701	2021

### Work-Experience

Job Title	Organization Name	Dates	Responsibilities & Achievements
Summer Training	Supervisors Training Centre, Charbagh, Lucknow, 226021	June 2025 to July 2025	<ul style="list-style-type: none"><li>Developed completely working Hostel Management Software for management of STC hostel and its resources efficively.</li><li>Acquired skills of Team Leading, Project Management, Developing complete software from scratch to successful Deployment, Database Management, Java, HTML, CSS , JS, Firebase.</li></ul>

# Practical-1

Topic- HTML program to create resume preparation using tables

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <style>
        body{
            font-family:Arial;
        }
        .section-header {
            background-color: #e9e9e9;
            padding: 8px;
            margin-top: 20px;
            margin-bottom:20px;
            border-left: 5px solid #007bU;
        }
        table{
            width:100%;
            border-collapse: collapse;
        }
        th, td {
            border: 1px solid #ddd;
            padding: 12px;
            text-align: left;
        }
        th {
            background-color: #f2f2f2;
            font-weight: bold;
        }
        .resume{
            max-width:850px;
            margin:auto;
            padding:30px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }
    </style>
</head>
<body>
    <div class="resume">
```

# Output

Job Title	Organization Name	Dates	Responsibilities & Achievements
Summer Training	Supervisors Training Centre, Charbagh, Lucknow, 226021	June 2025 to July 2025	<ul style="list-style-type: none"><li>Developed completely working Hostel Management Software for management of STC hostel and its resources efficiently.</li><li>Acquired skills of Team Leading, Project Management, Developing complete software from scratch to successful Deployment, Database Management, Java, HTML, CSS , JS, Firebase.</li></ul>

## Skills

Category	Skills
Programming Languages	Java, Flutter, Dart, XML for Android App Development
Database	Firestore, Firebase Realtime Database, MySQL, PostgreSQL
Tools & Technologies	Firebase, Java Servlet
Soft Skills	Leadership, Management, Problem-Solving, Critical Thinking

## Projects

Project Name	Description
Deliverit - E Commerce Platform	It is an Online Products Delivery System featuring Customer and Console Apps for seamless order management and real-time order updated. It streamlines product delivery with a user-friendly customer app and a powerful console app for vendors, enabling a complete end-to-end solution.
Weather Forecast - Android App	A user-friendly weather application that integrates with the FreeWeatherAPI to display real-time and future weather conditions (temperature, humidity, wind speed) based on the user's location.
Stock Mangaemnet App	A custom-built stock management application designed to streamline inventory control. It features cloud-based, multi-device synchronization using Firebase for easy inventory maintenance.
Calculator-Android App	It is an android app to solve complex arithmetic equations easily.

I hereby declare that the information contained herein is true and correct to the best of my knowledge and belief

```
<h1 style="text-align: center;"> Resume </h1>
<div class="section-header">
    <h2>Personal Information</h2>
</div>
<table>
    <tbody class="contact-info">
        <tr>
            <th> Name </th>
            <td> Nihal Gupta</td>
        </tr>
        <tr>
            <th> Email </th>
            <td> emailatnihal@pm.me</td>
        </tr>
        <tr>
            <th> Phone Number </th>
            <td> +91 7307200446 </td>
        </tr>
    </tbody>
</table>
<div class="section-header">
    <h2>Professional Summary</h2>
</div>
<table>
    <tbody class="summary">
        <tr>
            <td>As a dedicated Android App Developer, I specialize in crafting efficient and intuitive mobile applications designed to simplify everyday tasks. My expertise lies in building robust, real-time solutions using Java, XML, Android Studio to develop Android Applications. I am driven by the goal of developing practical tools that empower users to accomplish their objectives effectively through their Android devices.</td>
        </tr>
    </tbody>
</table>
<div class="section-header">
    <h2>Education</h2>
</div>
<table>
    <thead>
        <tr>
            <th>Course</th>
            <th>Institution</th>
            <th>Year of Completion</th>
        </tr>
    </thead>
```

```

</thead>
<tbody>
<tr>
    <td>Bachelor of Technology - Computer Science Artificial Intelligence</td>
    <td>University of Lucknow ,Lucknow, Uttar Pradesh, India, 226021</td>
    <td>Currently Pursuing</td>
</tr>
<tr>
    <td>Intermediate</td>
    <td>City Montessory Inter College, Lakhimpur Kheri, Uttar Pradesh, India, 262701</td>
    <td>2023</td>
</tr>
<tr>
    <td>High School</td>
    <td>City Montessory Inter College, Lakhimpur Kheri, Uttar Pradesh, India, 262701</td>
    <td>2021</td>
</tr>
</tbody>
</table>
<div class="section-header">
    <h2>Work-Experience</h2>
</div>
<table>
    <thead>
        <tr>
            <th>Job Title</th>
            <th>Organization Name</th>
            <th>Dates</th>
            <th>Responsibilities & Achievements</th>
        </tr>
    <tr>
        <td>Summer Training</td>
        <td>Supervisors Training Centre, Charbagh, Lucknow, 226021</td>
        <td> June 2025 to July 2025</td>
        <td>
            <ul>
                <li> Developed completely working Hostel Management Software for management of STC hostel and its resources eUicively.</li>
                <li> Acquired skills of Team Leading, Project Management, Developing complete software from scratch to successful Deployment, Database Management, Java, HTML, CSS , JS, Firebase.</li>
            </ul>
        </td>
    </tr>
</table>

```

```
</td>
</tr>
</thead>
</table>
<div class="section-header">
  <h2>Skills</h2>
</div>
<table>
  <thead>
    <tr>
      <th>Category</th>
      <th>Skills</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>Programming Languages</td>
      <td>Java, Flutter, Dart, XML for Android App Development</td>
    </tr>
    <tr>
      <td>Database</td>
      <td>Firestore, Firebase Realtime Database, MySQL, PostgreSQL</td>
    </tr>
    <tr>
      <td>Tools & Technologies</td>
      <td>Firebase, Java Servlet</td>
    </tr>
    <tr>
      <td>Soft Skills</td>
      <td>Leadership, Management, Problem-Solving, Critical Thinking</td>
    </tr>
  </tbody>
</table>
<div class="section-header">
  <h2>Projects</h2>
</div>
<table>
  <thead>
    <tr>
      <th>Project Name</th>
      <th>Description</th>
    </tr>
  </thead>
  <tbody>
```

```
<tr>
<td> Deliverit - E Commerce Platform</td>
<td>It is an Online Products Delivery System featuring Customer and Console Apps for seamless order management and real-time order updated. It streamlines product delivery with a user-friendly customer app and a powerful console app for vendors, enabling a complete end-to-end solution.</td>
</tr>
<tr>
<td> Weather Forecast - Android App</td>
<td> A user-friendly weather application that integrates with the FreeWeatherAPI to display real-time and future weather conditions (temperature, humidity, wind speed) based on the user's location.</td>
</tr>
<tr>
<td>Stock Mangaemnet App</td>
<td>A custom-built stock management application designed to streamline inventory control. It features cloud-based, multi-device synchronization using Firebase for easy inventory maintenance.</td>
</tr>
<tr>
<td> Calculator- Android App</td>
<td> It is an android app to solve complex arithmetic equations easily.</td>
</tr>
</tbody>
<table>
</div>
<p style="text-align: center; color: #444444;">I hereby declare that the information contained herein is true and correct to the best of my knowledge and belief</p>
</body>
</html>
```

# Output

 <h1>University of Lucknow</h1>	<p>This is home page showing in right column of frameset. Navigate using left sidebar.</p>
<p><b>Menu</b></p> <hr/> <p><a href="#">Home</a></p>	<p>Home</p> <p>Page 2</p>

## Practical-2

Topic- HTML program for homepage creation using frames.

□ HomePage.html-

```
<!DOCTYPE html>
<html>
<head>
    <title>Home Page</title>
</head>
<frameset rows="170px,*">
    <frame src="heading.html"></frame>
    <frameset cols="200px,*">
        <frame src="menu.html"></frame>
        <frame src="home.html"></frame>
        <noframes>
            <body><h1>Frames not supported.</h1></body>
        </noframes>
    </frameset>
</frameset>
</html>
```

heading.html-

```
<!DOCTYPE html>
<html>
<head>
    <title>Heading</title>
    <style>
        body{
            font-family: Arial;
            padding-left: 20px;
            color: #441bU;
        }
        h1 {
            font-size: 72px;
        }
        div{
            display:flex;
            gap:15px;
        }
        img{
            width:160px;
            height:160px;
        }
    </style>
</head>
<body>
    <h1>Welcome to my website</h1>
    <div>
        
        
        
    </div>
</body>
</html>
```



```

        background-color: #d1e7f1;
        font-weight: bold;
    }

```

</style>

</head>

<body>

<h2>Menu</h2>

<ul>

<li><a href="home.html" target="content\_frame">Home</a></li>

<li><a href="Page2.html" target="content\_frame">Page 2</a></li>

</ul>

</body>

</html>

**□home.html-**

```

<!DOCTYPE html>
<html>
<head>
    <title>Home</title>
    <style>
        body{
            font-family: Arial;
            padding-left: 20px;
            color: #441b54;
        }
        h1 {
            border-bottom: 2px solid #1638df;
            padding-bottom: 10px;
        }
    </style>
</head>
<body>
    <h1>Home</h1>
    <p style="margin-bottom: 5px;">This is home page showing in right column of frameset.</p>
    <p style="margin-top: 5px;">Navigate using left sidebar.</p>
</body>
</html>

```

# Output

Event Participation Form	
<b>Personal Information</b>	
Name:	Nihal Gupta
Gender:	<input checked="" type="radio"/> Male <input type="radio"/> Female
Date of Birth:	05-10-2005 <input type="button" value="Edit"/>
Age:	20
Contact no.:	7307200446
Email:	emailatnhai@gmail.com
<b>Other Details</b>	
Programming Languages Known:	<input checked="" type="checkbox"/> HTML <input type="checkbox"/> CSS <input checked="" type="checkbox"/> Javascript
Theme Color:	
Code:	*****
Team members:	<input type="button" value="Add"/>
<input type="button" value="Submit"/>	

# Practical-3

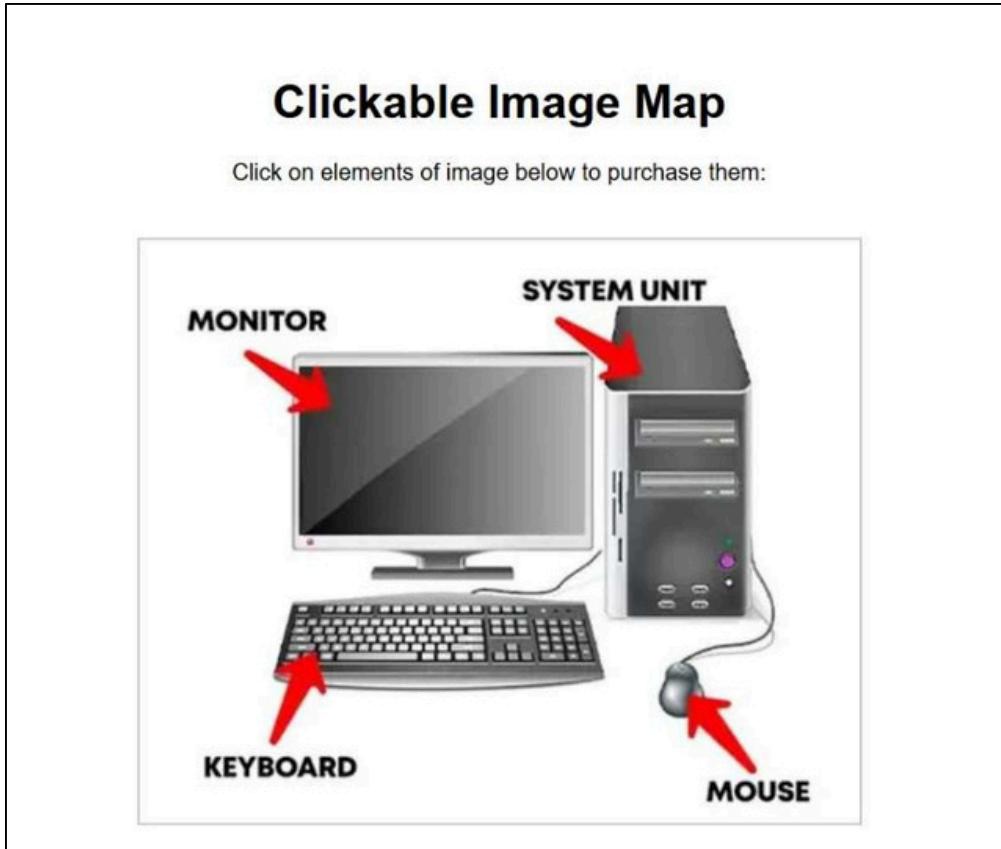
Topic- HTML program for form creation.

```
<!DOCTYPE html>
<head>
    <title>Form</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <style>
        body{
            font-family:Arial;
        }
        .container{
            max-width:850px;
            margin:auto;
            padding:30px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }
        .section-header {
            background-color: #e9e9e9;
            padding: 8px;
            margin-top: 20px;
            margin-bottom:20px;
        }
        table{
            width:100%;
            border-collapse: collapse;
        }
        td {
            border: 1px solid #ddd;
            padding: 12px;
            text-align: left;
        }
        #button {
            background-color: #44a9ec;
            color: white;
            padding: 10px 25px;
            font-size: 18px;
            border-color: #44a9ec;
        }
    </style>
</head>
```

```
<body>
  <div class="container">
    <h1 style="text-align: center;"> Event Participation Form </h1>
    <form action="submit" method="post">
      <div class="section-header">
        <h2>Personal Information</h2>
      </div>
      <table>
        <tbody>
          <tr>
            <td>Name:</td>
            <td><input type="text" /></td>
          </tr>
          <tr>
            <td>Gender:</td>
            <td><input type="radio" name="Gender" id="Male" checked/><label for="Male">Male</label>
              <input type="radio" name="Gender" id="Female"/><label for="Female">Female</label>
            </td>
          </tr>
          <tr>
            <td>Date of Birth:</td>
            <td><input type="date"></td>
          </tr>
          <tr>
            <td>Age:</td>
            <td><input type="number"></td>
          </tr>
          <tr>
            <td>Contact no.:</td>
            <td><input type="tel" pattern="[0-9]{10}"></td>
          </tr>
          <tr>
            <td>Email:</td>
            <td><input type="email"></td>
          </tr>
        </tbody>
      </table>
      <div class="section-header">
        <h2>Other Details</h2>
      </div>
      <table>
        <tbody>
```

```
<tr>
    <td>Programming Languages Known:</td>
    <td><input type="checkbox" id="HTML" name="language">
        <label for="HTML">HTML</label>
        <input type="checkbox" id="CSS" name="language">
        <label for="CSS">CSS</label>
        <input type="checkbox" id="Javascript" name="language">
        <label for="Javascript">Javascript</label></td>
    </tr>
    <tr>
        <td>Theme Color:</td>
        <td><input type="color"></td>
    </tr>
    <tr>
        <td>Code:</td>
        <td><input type="password"></td>
    </tr>
    <tr>
        <td>Team members:</td>
        <td><input type="range" min="2" max="5"></td>
    </tr>
</tbody>
</table>
<div style="text-align: center; padding-top: 15px;">
    <input type="button" value="Submit" id="button">
</div>
</form>
</div>
</body>
</html>
```

## Output



On clicking upon monitor-

127.0.0.1:5500/Resume.htm | how to take long screenshot | Home Page | Form | Hotspots | Hp Monitors - Buy Hp Led | + - \_

https://www.flipkart.com/computers/monitors/hp~brand/pr?sid=6bo,9no

Flipkart Explore Plus+ Search for products, brands and more Login Become a Seller More Cart

Electronics TVs & Appliances Men Women Baby & Kids Home & Furniture Sports, Books & More Flights Offer Zone

**Filters**

**CATEGORIES**

< Computers  
< Computer Components  
Monitors

**PRICE**

Min to 60000+

Assured

**BRAND**

**CUSTOMER RATINGS**

4★ & above  
 3★ & above  
 2★ & above  
 1★ & above

Home > Computers > Computer C... > Monitors

Computers

**Hp Monitors** (Showing 1–24 products of 28 products)

Sort By Popularity Price -- Low to High Price -- High to Low Newest First

 Sponsored  
**Frontech - 50.8 cm (20 inch) HD LED Backlit VA Panel Monitor (MON-0074)**  
3.9 ★ 4,924 Ratings & 466 Reviews  
Panel Type: VA Panel  
Screen Resolution Type: HD  
HDMI  
Brightness: 250 nits  
Response Time: 3 ms | Refresh Rate: 60 Hz  
HDMI Ports - 1  
1 Year Warranty

₹2,763  
₹8,000 65% off  
Bank Offer

 Sponsored  
**Frontech - 55.88 cm (22 inch) HD LED Backlit VA Panel Monitor (MON\_0060)**  
3.9 ★ 4,924 Ratings & 466 Reviews  
Panel Type: VA Panel  
Screen Resolution Type: HD  
HDMI  
Brightness: 250 nits

₹3,499  
₹8,500 58% off  
Bank Offer

ENG IN Wi-Fi 20:36 29-10-2025

## Practical-4

Topic- Create a web page to embed an image map in a web page using html.

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

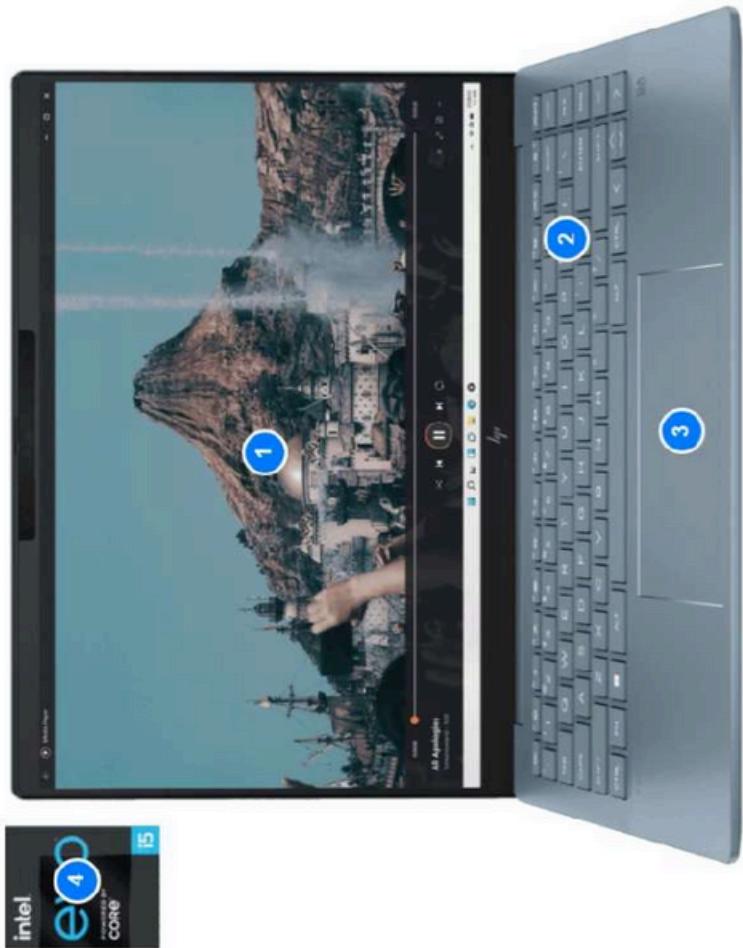
    <title>Image Map</title>
    <meta charset="UTF-8"/>
    <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
    <style>
        body {
            font-family: Arial;
            text-align: center;
            padding: 20px;
        }
        .container {
            margin: 20px auto;
            max-width: fit-content;
        }
        .image {
            margin: 20px auto;
            border: 2px solid #ccc;
            display: inline-block;
        }
    </style>
</head>
<body>
    <div class ="container">
        <h1>Clickable Image Map</h1>
        <p>Click on elements of image below to purchase them:</p>
        <div class="image">
            
        </div>
        <map name="map">
            <area shape="rect"
            coords="103,81,318,214"
```

```
    href="https://www.flipkart.com/computers/monitors/hp~brand/pr?sid=6bo,9no
  "alt="Shop Monitors">
    <area shape="rect"
      coords="322,46,430,246"
      href=" https://www.flipkart.com/search?q=HP%20CPU&otracker=search&otracker1=search&marketplace=FLIPKART&as-show=on&as=on"
      alt="Shop CPU">
    <area shape="rect"
      coords="88,242,331,310"
      href=" https://www.flipkart.com/search?q=HP%20Keyboard&otracker=search&otracker1=search&marketplace=FLIPKART&as-show=on&as=on"
      alt="Shop Keyboard">
    <area shape="circle"
      coords="379,310,20"
      href=" https://www.flipkart.com/search?q=HP%20Mouse&otracker=search&otracker1=search&marketplace=FLIPKART&as-show=on&as=on"
      alt="Shop Mouse">
  </map>
</div>
</body>
</html>
```

# Output

## Laptop Specifications

Click on hotspots to show details:



### Precision Multi-Touch Trackpad

A large, smooth trackpad with multi-touch gesture support, offering accurate and fluid navigation through your operating system and applications.

# Practical-5

Topic- Create a web page to fix the hotspots and to show all the related information when the hotspots are clicked using HTML.

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

    <title>Hotspots</title>
    <meta charset="UTF-8"/>
    <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
    <style>

        body {
            font-family: Arial;
        }

        .container{
            margin:auto;
            max-width: fit-content;
            text-align: center;
        }

        .hot-spot {
            position: absolute;
            width: 28px;
            height: 28px;
            background-color: #007bU;
            border: 3px solid #Uf;
            border-radius: 50%;
            cursor: pointer;
            display: flex;
            align-items: center;
            justify-content: center;
            color: white;
            font-weight: bold;
            font-size: 15px;
        }

        #spot-1 {
            top: 38%;
            left: 49%;
        }

        #spot-2 {
            top: 67%;
            left: 59%;
        }

    </style>
</head>
<body>

    <div class="container">
        <div class="hot-spot" id="spot-1"></div>
        <div class="hot-spot" id="spot-2"></div>
    </div>

</body>
</html>
```

```

        }
        #spot-3 {
            top: 78%;
            left: 50%;
        }
        #spot-4 {
            top: 20%;
            left: 29%;
        }

    #info-panel {
        margin-top: 20px;
        padding: 15px;
        border: 1px solid #ccc;
        border-left: 5px solid #007bU;
        min-height: 50px;
        text-align: left;
    }
    #info-title {
        color: #007bU;
        margin-top: 0;
        margin-bottom: 5px;
    }

```

</style>

</head>

<body>

<div class="container">

<h1>Laptop Specifications</h1>

<p>Click on hotspots to show details:</p>

<div class="image\_container">



<div class="hot-spot" id="spot-1" data-spot-id="display">1</div>

<div class="hot-spot" id="spot-2" data-spot-id="keyboard">2</div>

<div class="hot-spot" id="spot-3" data-spot-id="trackpad">3</div>

<div class="hot-spot" id="spot-4" data-spot-id="intel-evo">4</div>

</div>

<div id="info-panel">

<h3 id="info-title">Component Information</h3>

<p id="info-content">Click a hot spot to view details.</p>

</div>

</div>

<script>

```

document.addEventListener('DOMContentLoaded', () => {
  const hotSpots = document.querySelectorAll('.hot-spot');
  const title = document.getElementById('info-title');
  const content = document.getElementById('info-content');

  const componentData = {
    display: {
      title: "Immersive Micro-Edge Display",
      details: "Experience vibrant visuals on this nearly borderless display, perfect for media consumption and productivity. Likely features Full HD or higher resolution."
    },
    keyboard: {
      title: "Comfortable Backlit Keyboard",
      details: "A spacious, responsive keyboard designed for comfortable typing, even in low-light conditions with its integrated backlighting. Ideal for long work sessions."
    },
    trackpad: {
      title: "Precision Multi-Touch Trackpad",
      details: "A large, smooth trackpad with multi-touch gesture support, offering accurate and fluid navigation through your operating system and applications."
    },
    "intel-evo": {
      title: "Intel Evo Platform Certified",
      details: "This laptop is certified under the Intel Evo platform, guaranteeing a premium experience with fast performance, long battery life, quick responsiveness, and Wi-Fi 6 connectivity."
    }
  };
  title.textContent = "Component Information";
  content.textContent = "Click a hot spot to view details.";

  hotSpots.forEach(spot => {
    spot.addEventListener('click', () => {
      const ID = spot.getAttribute('data-spot-id');
      const data = componentData[ID];

      if(data){
        title.textContent = data.title;
        content.textContent = data.details;
      }
    });
  });
}); </script> </body> </html>

```

# Output

**Image Coordinates Finder Tool**

Select Your Picture

Choose File

Your selected image will appear below:

No image selected yet.

**Coordinates for CSS:**  
Click the image to generate coordinates.

Finding Coordinates of centre of circle near to text PHP in image-

**Image Coordinates Finder Tool**

Select Your Picture

Choose File

Your selected image will appear below:



**Coordinates for CSS:**  
Coordinates: (827px, 381px) or ( 55%, 45%)

# Practical-6

Topic- Create a web page to get the coordinates from an image using javascript.

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

    <title>Coordinates Finder</title>
    <meta charset="UTF-8"/>
    <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
    <style>

        body{
            font-family: Arial;
            text-align: center;
            background-color: #f8f8f8;
        }

        .upload-container{
            border: 1px solid #ddd;
            border-radius: 8px;
            background-color: #Uf;
            box-shadow: 0px 4px 12px rgba(0, 0, 0, 0.05);
        }

        .custom-button {
            display: inline-block;
            padding: 10px 20px;
            background-color: #007bU;
            color: white;
            border-radius: 5px;
            cursor: pointer;
            margin-bottom: 10px;
        }

        #file-input{
            display:none;
        }

        .custom-button:hover {
            background-color: #0056b3;
        }

        #image-preview-container {
            min-height: 200px;
            border: 2px dashed #ccc;
            border-radius: 5px;
            display: flex;
        }

    </style>

```

```

        align-items: center;
        justify-content: center;
        background-color: #fafafa;
        cursor: crosshair;
        display: flex;
    }
    #image-preview {
        display: none;
        height: 100%;
        width: 100%;
        object-fit: contain;
    }
    #preview-text {
        color: #888;
    }
</style>
</head>
<body>
    <h1>Image Coordinates Finder Tool</h1>
    <div class="upload-container">
        <h2>Select Your Picture 네 네 네 네 네</h2>
        <input type="file" id="file-input" accept="image/*">

        <label for="file-input" class="custom-button">
            Choose File
        </label>

        <p>Your selected image will appear below:</p>

        <div id="image-preview-container">
            <img id="image-preview" src="" alt="Image Preview">
            <span id="preview-text">No image selected yet.</span>
        </div>

        <div id="result-box">
            <h3>Coordinates for CSS:</h3>
            <p id="coords-display">Click the image to generate coordinates.</p>
        </div>
    </div>
    <script>
        document.addEventListener('DOMContentLoaded', () =>{
            const input = document.getElementById('file-input');
            const preview = document.getElementById('image-preview');
            const text = document.getElementById('preview-text');

```

```

const coords=document.getElementById('coords-display');
input.addEventListener('change',function(event){
    const file=event.target.files[0];
    if(file){
        const reader = new FileReader();
        reader.onload=function(e){
            preview.src=e.target.result;
            preview.style.display='block';
            text.textContent='Click anywhere on the image below to instantly get the
coordinates.'
            text.style.display='none';
        };
        reader.readAsDataURL(file);
    } else{
        preview.src="";
        preview.style.display='none';
        text.style.display='block';
    }
});
preview.addEventListener('click',(event)=>{
    const rect=preview.getBoundingClientRect();
    const clickX=event.clientX-rect.left;
    const clickY=Math.round(event.clientY-rect.top);
    coords.textContent= ` Coordinates: (${Math.round(clickX)}px,
${Math.round(clickY)}px) or ( ${Math.round(clickX*100/preview.offsetWidth)}%,
${Math.round(clickY*100/preview.offsetHeight)}%` ;
})
});
</script>
</body>
</html>

```

# Output

## Implementing All type of CSS

- External CSS:

**External CSS will be applied on this (text-color: Red)**

- Internal CSS:

**Inline CSS will be applied on this (text-color: Blue)**

- Inline CSS:

**Internal CSS will be applied on this (text-color: Green)**

# Practical-7

Topic- Create a web page with all type of cascading style sheets.

CSS.html-

```
<!DOCTYPE html>
<html>
  <head>
    <title>CSS</title>
    <link rel="stylesheet" href="external file.css">
    <style>
      body{
        font-family:Arial; font-size: 23px; background-color: #f8f8f8;
      }
      ul p { color: Blue; }
      .container{
        margin: auto; padding: 12px;
        max-width: fit-content;
        background-color: #FFFFFF;
        border: 1px solid #ddd;
        border-radius: 8px;
        box-shadow: 0px 4px 12px rgb(0,0,0,0.05);
      }
    </style>
  </head>
  <body>
    <h2 style="text-align: center;"> <u>Implementing All type of CSS</u></h2>
    <div class="container">
      <ul>
        <li><u>External CSS:</u><h5> External CSS will be applied on this (text-color: Red)</h5></li>
        <li><u>Internal CSS:</u><p>Inline CSS will be applied on this (text-color: Blue)</p></li>
        <li><u>Inline CSS:</u><p style="color: Green">Internal CSS will be applied on this (text-color: Green)</p></li>
      </ul>
    </div>
  </body>
</html>
```

external file.css-

```
h5{
  color:Red;
}
```

# Output

## Resume(CV)-

The screenshot shows a web-based resume builder interface. On the left, a dark sidebar titled "Navigator" contains four buttons: "CV", "Institute", "Department", and "Online Tutorials". The main content area is titled "Resume" and is divided into sections: "Personal Information", "Professional Summary", and "Education". Under "Personal Information", there is a table with three rows: Name (Nihal Gupta), Email (email@nihal@pm.me), and Phone Number (+91 7307200446). Under "Professional Summary", there is a text box containing a brief description of the user's expertise as an Android App Developer. The "Education" section is currently empty.

## Institute Website-

The screenshot shows a student management system login page for the University of Lucknow. The header features the university's logo and the text "UNIVERSITY OF LUCKNOW". The main content area is titled "Student Management System" and includes a sub-section for "Important information for students paying fees through Educational Loan / शिक्षण क्रय (Educational Loan) के माध्यम से शुल्क जमा करने वाले विद्यार्थी हेतु आवश्यक सूचना". It states that all students of the Lucknow University Campus have to create their profile on the UDRC portal. Below this, there are several bullet points: "Students have to register by entering their Student ID/Univ. Roll No which is mentioned on Allotment Letter and ID Card issued by the University. For students admitted in session 2021 – 22 user name will be the thirteen digit roll number 211001XXXXXX.", "A verification code would be sent on the mobile number registered at the time of form filling", "In case the mobile number has changed or is not functional you have to submit an application along with a copy of your ID card or allotment letter to get it updated", "UG students have to submit application in the office of the respective Dean of Faculties", "PG students have to submit application in the office of the respective Head of the Department/Director of Institutes", and "You can now create your own password by entering the verification code. The password should be of minimum 8 characters and should contain one capital, one small, a special character and one number.". At the bottom of this section is a button labeled "CLICK HERE FOR DETAILED GUIDELINES". To the right of this content area is a login form with fields for "Student ID/Univ. Roll No \*", "Password \*", and "Forgot Password". The form includes "Log in", "Register", and "RESET" buttons. The footer contains copyright information, technical helpline details, and a note about the system being powered by "Omni-NET through updesco".

# Practical-8

Topic- Write HTML/Javascript to display your CV in navigator, your institute website, Department website and tutorial website for specific subject.

```
<!DOCTYPE html>
<html>

    <head>
        <title>Navigator</title>
    </head>
    <style>
        html,body{
            height:100%;
            margin: 0;
            padding: 0;
            box-sizing: border-box;
            background-color: #f4f7f6;
        }
        body{
            font-family: Arial;
            display: flex;
            justify-content: center;
            align-items: center;
        }
        .container{
            display:flex;
            width: 98%;
            border-radius: 12px;
            box-shadow: 0 10px 30px rgba(0, 0, 0, 0.1);
            background-color: #UUU;
            height: 95vh;
        }
        .options {
            display: flex;
            flex-direction: column;
            width: 250px;
            background-color: #2c3e50;
            color: #UUU;
            border-right: 1px solid #34495e;
            padding: 25px 20px;
            flex-shrink: 0;
        }
    </style>
```

# Output

## Department Website-

The screenshot shows a web browser window with four tabs open. The active tab displays the 'Computer Science & Engineering' page of the University of Lucknow. The page features a dark blue sidebar on the left with a 'Navigator' title and four menu items: 'CV', 'Institute', 'Department', and 'Online Tutorials'. The main content area has a yellow header 'About the Department' and a large photo of a group of students. Below the header, there are links for 'YouTube Channel of Department of Computer Science & Engineering', 'Admission link' (with a help line number), and 'AICTE Extension of Approval (EoA)'. A profile picture of Dr. Zeeshan Ali Siddiqui is shown, along with his title 'Assistant Professor', 'Department Coordinator', 'Mobile: 9810513463', and 'Email: siddiqui\_zeeshan@lkouniv.ac.in'. The bottom of the page shows a banner for the Faculty of Engineering & Technology.

## Tutorial Website-

The screenshot shows the same web browser window with the 'Computer Science & Engineering' page of the University of Lucknow. The sidebar and top navigation are identical to the previous screenshot. The main content area now displays a table titled 'S.No.' and 'Description' under the 'About the Department' section. The table lists 12 tutorials, each with a 'View' link. The tutorials include topics such as Thread vs process, Method Study, ISA, Instruction Cycle, Concurrent vs parallel execution, Basic concept of parallel processing, Addressing Modes, LOSSLESS JOIN DECOMPOSITION, Functional Dependency, Lecture 20 alpha - beta pruning, Lecture 19 Game Problem Formulation, and Lecture 18 Adversarial search.

S.No.	Description	View
1	Thread vs process (Computer Architecture, BCA 2nd Year)	<a href="#">View</a>
2	Method Study (Computer Architecture, BCA 2nd Year)	<a href="#">View</a>
3	ISA (Computer Architecture, BCA 2nd Year)	<a href="#">View</a>
4	Instruction Cycle (Computer Architecture, BCA 2nd Year)	<a href="#">View</a>
5	Concurrent vs parallel execution	<a href="#">View</a>
6	Basic concept of parallel processing (Computer Architecture, BCA 2nd Year)	<a href="#">View</a>
7	Addressing Modes (Computer Architecture, BCA 2nd Year)	<a href="#">View</a>
8	LOSSLESS JOIN DECOMPOSITION(DATABASE MANAGEMENT SYSTEM, B.Tech 3rd year- MCA 2nd year)	<a href="#">View</a>
9	Functional Dependency(DATABASE MANAGEMENT SYSTEM, B.Tech 3rd year- MCA 2nd year)	<a href="#">View</a>
10	Lecture 20 alpha - beta pruning (AI CSE 4th Year)	<a href="#">View</a>
11	Lecture 19 Game Problem Formulation (AI CSE 4th Year)	<a href="#">View</a>
12	Lecture 18 Adversarial search (AI CSE 4th Year)	<a href="#">View</a>

```

.options h1{
    font-size: 24px;
    font-weight: 700;
    margin-top: 25px;
    margin-bottom: 20px;
}
.option{
    background-color: transparent;
    color: #ecf0f1;
    border: 2px solid #3498db;
    border-radius: 5px;
    cursor: pointer;
    padding: 12px 15px;
    margin-bottom: 15px;
    font-size: 16px;
    width: 100%;
}
.option:hover{
    background-color: #0056b3;
    color: #fff;
    transform: translateY(-2px);
}
.dataview{
    flex-grow: 1;
    padding: 0;
    height: 100%;
}
#content {
    width: 100%;
    height: 100%;
    border: none;
}

```

</style>

<body>

```

<div class="container">
    <div class="options">
        <h1 style="text-align: center;"><u>Navigator</u></h1>
        <button class="option" onclick="display('Resume.html')">履歴書 CV</button>
        <button class="option"

```

onclick="display('https://udrc.lkouniv.ac.in/student?cd=MQAzADYAOQA2AA%3D%3D')"

>諺諧證謬諱 Institute</button>

```
<button class="option"
onclick="display('https://udrc.lkouniv.ac.in/Department/DepartmentDetail/History?de
pt=58')">諱闇調 Department</button>
    <button class="option"
onclick="display('https://udrc.lkouniv.ac.in/Department/DepartmentDetail/StuStudyMateri
al?dept=58')">eresources Online Tutorials</button>
</div>
<div class="dataview" >
    <iframe id="content"></iframe>
</div>
</div>
</body>
<script>
    const iframe = document.getElementById('content');
    function display(url) {
        iframe.src = url;
    }
    document.addEventListener('DOMContentLoaded', () => {
        display("Resume.html");
    });
</script>
</html>
```

# Output

### Student Record Entry

**Student Name:**  
  
Student Name must be at least 2 characters long.

**Student ID:**  
  
Student ID must include 13 digits.

**Email:**  
  
Please enter a valid email address.

**Department:**  
  
Please select a Department.

**Submit Record**

127.0.0.1:5500 says  
Student Record Submitted Successfully!

**OK**

**Student Name:**

**Student ID:**

**Email:**

**Department:**

**Submit Record**

# Practical-9

Topic- Design HTML formforkeepingstudent record and validate it using Java script.

```
<!DOCTYPE html>
<html lang="en">
<head>

    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Student Record Form</title>
    <style>

        body {
            font-family: Arial, sans-serif;
            background: linear-gradient(135deg, #e0f2f7 0%, #c1d0f0 100%);
            margin: 0;
            padding: 0;
            display: flex;
            min-height: 100vh;
            justify-content: center;
            align-items: center;
        }

        .container{
            background-color: #fff;
            padding: 40px;
            border-radius: 12px;
            box-shadow: 0 8px 16px rgba(0, 0, 0, 0.1);
            width: 100%;
            max-width: 500px;
            box-sizing: border-box;
        }

        h2 {
            text-align: center;
            color: #4A90E2;
            margin-bottom: 30px;
            font-weight: 600;
        }

        .form-group {
            margin-bottom: 20px;
        }

        label {
            display: block;
            margin-bottom: 8px;
        }

        input {
            width: 100%;
            height: 40px;
            border: 1px solid #ccc;
            padding: 10px;
        }

        button {
            width: 100px;
            height: 40px;
            border: none;
            background-color: #4A90E2;
            color: white;
            font-weight: bold;
            cursor: pointer;
        }

        button:hover {
            opacity: 0.8;
        }
    </style>
</head>
<body>

    <div class="container">
        <h2>Student Record Form</h2>
        <form>
            <div class="form-group">
                <label>Name:</label>
                <input type="text" name="name" required="required"/>
            </div>
            <div class="form-group">
                <label>Email:</label>
                <input type="email" name="email" required="required"/>
            </div>
            <div class="form-group">
                <label>Phone:</label>
                <input type="tel" name="phone" required="required"/>
            </div>
            <div class="form-group">
                <label>Address:</label>
                <input type="text" name="address" required="required"/>
            </div>
            <div class="form-group">
                <label>Gender:</label>
                <input type="radio" name="gender" value="Male"/> Male
                <input type="radio" name="gender" value="Female"/> Female
            </div>
            <div class="form-group">
                <label>Age:</label>
                <input type="number" name="age" required="required"/>
            </div>
            <div class="form-group">
                <label>Subjects:</label>
                <input type="checkbox" name="subject" value="Math"/> Math
                <input type="checkbox" name="subject" value="Science"/> Science
                <input type="checkbox" name="subject" value="English"/> English
                <input type="checkbox" name="subject" value="History"/> History
                <input type="checkbox" name="subject" value="Geography"/> Geography
            </div>
            <div class="form-group">
                <button type="submit">Submit</button>
            </div>
        </form>
    </div>
</body>
</html>
```

```
        font-weight: 600;
        color: #333;
        font-size: 0.95em;
    }
    input[type="text"], input[type="email"], select {
        width: 100%;
        padding: 12px 15px;
        box-sizing: border-box;
        border: 1px solid #d1d9e6;
        border-radius: 8px;
        font-size: 1em;
        color: #333;
        background-color: #f4f7f6;
    }
    .error-message {
        color: red;
        font-size: 0.85em;
        margin-top: 6px;
        font-weight: 500;
        min-height: 18px;
    }
    button {
        display: block; width: 100%; padding:
        12px 20px; background-color: #4A90E2;
        color: white; border: none; border-radius:
        8px; font-size: 1.1em; font-weight: 600;
        cursor: pointer; margin-top: 30px; box-
        shadow: 0 4px 8px rgba(0, 0, 0, 0.05);
    }
    button:hover {
        background-color: #357ABD;
        box-shadow: 0 8px 16px rgba(0, 0, 0, 0.1);
    }
</style>
</head>
<body>
    <div class="container">
        <h2>Student Record Entry</h2>
```

```

<formid="studentForm" onsubmit="return validateForm()">
  <divclass="form-group">
    <label for="studentName">Student Name:</label>
    <input type="text" id="studentName" name="studentName" autocomplete="oU">
    <div id="nameError" class="error-message"></div>
  </div>
  <divclass="form-group">
    <label for="studentId">Student ID:</label>
    <input type="text" id="studentId" name="studentId" autocomplete="oU">
    <div id="idError" class="error-message"></div>
  </div>
  <divclass="form-group">
    <label for="studentEmail">Email:</label>
    <input type="email" id="studentEmail" name="studentEmail"
    autocomplete="oU">
    <div id="emailError" class="error-message"></div>
  </div>
  <divclass="form-group">
    <label for="studentDepartment">Department:</label>
    <select id="studentDepartment" name="studentDepartment">
      <option value="">--Select Department--</option>
      <option value="1">Computer Science & Engineering (CSE)</option>
      <option value="2">Computer Science & Engineering - Artificial Intelligence(CS-
AI)</option>
      <option value="3">Electronics & Communication Engineering (ECE)</option>
      <option value="4">Mechanical Engineering (ME)</option>
      <option value="5">Electrical Engineering (EE)</option>
      <option value="6">Civil Engineering (CE)</option>
    </select>
    <div id="departmentError" class="error-message"></div>
  </div>
  <button type="submit">Submit Record</button>
</form>
</div>
<script>
  function validateForm() {
    letisValid = true;

    const nameInput = document.getElementById('studentName');
    const idInput = document.getElementById('studentId');
    const emailInput = document.getElementById('studentEmail');
    const departmentSelect =
    document.getElementById('studentDepartment');

```

```
const nameError = document.getElementById('nameError');
const idError = document.getElementById('idError');
const emailError = document.getElementById('emailError');
const departmentError = document.getElementById('departmentError');

const setError = (element, message) => {
    element.textContent = message;
    isValid = false;
};

nameError.textContent = "";
idError.textContent = "";
emailError.textContent = "";
departmentError.textContent = "";

if(nameInput.value.trim().length < 2) {
    setError(nameError, 'Student Name must be at least 2 characters long.');
}

const idPattern = /\d{13}$/;
if(idInput.value.trim()) {
    setError(idError, 'Student ID is required.');
} else if (!idPattern.test(idInput.value.trim())) {
    setError(idError, 'Student ID must include 13 digits.');
}

const emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
if(!emailInput.value.trim()) {
    setError(emailError, 'Email address is required.');
} else if (!emailPattern.test(emailInput.value.trim())) {
    setError(emailError, 'Please enter a valid email address.');
}

if(departmentSelect.value === "") {
    setError(departmentError, 'Please select a Department.');
}

if(isValid) {
    alert('Student Record Submitted Successfully!');
    return true;
} else{
    return false;
}
}</script> </body> </html>
```

# Practical-10

Topic- Writing program in XML for creation of DTD, which specifies set of rules.

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- XML DOCUMENT CONTENT -->
<students>

    <student>
        <name>Jane Doe</name>
        <id>1234567890123</id>
        <email>jane.doe@university.edu</email>
        <department>Computer Science & Engineering (CSE)</department>
    </student>

    <student>
        <name>Max Power</name>
        <id>9876543210987</id>
        <email>m.power@university.edu</email>
        <department>Electronics & Communication Engineering (ECE)</department>
    </student>
</students>

<!-- Respective DTD of above content -->
<!DOCTYPE students [
    <!-- Rule 1: The Root Element
        The document must start with the <students> element.
        It must contain one or more (+) <student> element. -->
    <!ELEMENT students (student+)>
    <!-- Rule 2: The <student> Structure
        Each <student> element must contain four child elements
        in the following strict order: <name>, <id>, <email>, and <department>. -->
    <!ELEMENT student (name, id, email, department)>
    <!--
        Rule 3: Simple Data Elements
        The following elements can only contain #PCDATA
        (Parsed Character Data, meaning regular text content).
    -->
    <!ELEMENT name (#PCDATA)>
    <!ELEMENT id (#PCDATA)>
    <!ELEMENT email (#PCDATA)>
    <!ELEMENT department (#PCDATA)>
]>
```