

# **USER INTERFACE AND DESIGN**

## **LABSHEET 1**

**DONE BY ABHINAV P MADHU**

**AM.SC.U4AIE24002**

**1. Create an HTML document with the following structure:**

- Title: "My First HTML Page"
- A heading with "Welcome to HTML Lab"
- A paragraph describing yourself.
- Include a horizontal line below the paragraph.

**SOURCE CODE**

```
<!DOCTYPE html>

<HTML>

<HEAD>

<TITLE>My First HTML Page</TITLE>

<HEAD>

<BODY bgcolor="cyan">

<H1 align="middle"> WELCOME TO HTML </H1>

<P>Hello I am Abhinav P Madhu.I am from CSE AI A BATCH currently in semester 2.I love to
watch and play football</P>

<HR>

</BODY>

</HTML>
```



**WELCOME TO HTML**

Hello I am Abhinav P Madhu.I am from CSE AI A BATCH currently in semester 2.I love to watch and play football

**2. Write an HTML document that demonstrates the use of**

- **Bold, italic, <b>, <i>, <u>, <strong>, <em>, <mark>**

```
<!DOCTYPE html>

<HTML>

<HEAD>

<TITLE>My First HTML Page</TITLE>

<HEAD>

<BODY bgcolor="cyan">

<H1 align="middle"> WELCOME TO HTML </H1>

<P><B>Hello I am Abhinav P Madhu.I am from CSE AI A BATCH currently in semester  
2.</B><BR>

<U>I love to watch and play football</U><BR>

<B>I love watching movies</B><BR>

<I>I love to play games</I><BR>

<U>This is an underlined text</U><BR>

<STRONG>This is text placed in strong tag</STRONG><BR>

<em>This is text placed in emphacize tag</em><BR>

<mark>This is text placed in mark tag</mark></P>

<HR>

</BODY>

</HTML>
```

## WELCOME TO HTML

Hello I am Abhinav P Madhu.I am from CSE AI A BATCH currently in semester 2.  
I love to watch and play football  
**I love watching movies**  
*I love to play games*  
This is an underlined text  
**This is text placed in strong tag**  
*This is text placed in emphacize tag*  
**This is text placed in mark tag**

**3) Create an HTML file named headings\_example.html.**

1. Build a simple webpage representing the structure of a book using all six heading tags. The structure should be as follows:

- a. Use **<h1>** for the book's title: "The Wonders of Nature".
- b. Use **<h2>** for the main sections:
  - i. "Introduction"
  - ii. "Chapter 1: Forests"
  - iii. "Chapter 2: Oceans"
  - iv. "Chapter 3: Mountains"
- c. Use **<h3>** for sub-sections under each chapter. Example:
  - i. "Types of Forests" (under Chapter 1)
  - ii. "Marine Life" (under Chapter 2)
  - iii. "Famous Peaks" (under Chapter 3)
- d. Use **<h4>** for further subheadings under one sub-section (e.g., under "Types of Forests"):
  - i. "Tropical Forests"
  - ii. "Temperate Forests"
- e. Continue adding at least two more levels using **<h5>** and **<h6>** to represent finer details.  
Add a brief paragraph under each heading to describe its content (e.g., under "Introduction," write: "This section provides an overview of the book's themes.").

```
<!DOCTYPE html>

<html lang="en">

<head>
    <title>The Wonders of Nature</title>
</head>

<body>
    <h1>The Wonders of Nature</h1>

    <p>This book explores the beauty and complexity of the natural world, divided into forests, oceans, and mountains.</p>

    <h2>Introduction</h2>
    <p>This section provides an overview of the book's themes and what readers can expect to learn.</p>

    <h2>Chapter 1: Forests</h2>
    <p>This chapter discusses the various types of forests and their importance to the environment.</p>

    <h3>Types of Forests</h3>
    <p>Explore the different categories of forests found around the world.</p>
    <h4>Tropical Forests</h4>
    <p>Dense, lush forests found near the equator, known for their biodiversity.</p>
    <h5>Rainfall</h5>
    <p>Tropical forests receive high annual rainfall, often exceeding 2000mm.</p>
    <h6>Flora and Fauna</h6>
```

<p>Tropical forests are home to diverse plant and animal species, including orchids and jaguars.</p>

#### <h4>Temperate Forests</h4>

<p>Forests located in temperate zones, characterized by distinct seasons.</p>

##### <h5>Climate</h5>

<p>Temperate forests experience moderate rainfall and varying temperatures.</p>

###### <h6>Species Diversity</h6>

<p>Common species include oak, maple trees, deer, and foxes.</p>

## <h2>Chapter 2: Oceans</h2>

<p>This chapter delves into the mysteries and significance of the world's oceans.</p>

### <h3>Marine Life</h3>

<p>A closer look at the creatures that inhabit the oceans, from microscopic plankton to giant whales.</p>

#### <h4>Coral Reefs</h4>

<p>Known as the rainforests of the sea, coral reefs support a wide range of marine life.</p>

##### <h5>Threats</h5>

<p>Coral reefs are endangered due to climate change and pollution.</p>

###### <h6>Conservation Efforts</h6>

<p>Efforts like marine protected areas aim to safeguard coral reefs.</p>

## <h2>Chapter 3: Mountains</h2>

<p>This chapter highlights the majesty of mountains and their ecological significance.</p>

### <h3>Famous Peaks</h3>

<p>Discover some of the world's most iconic mountain ranges and peaks.</p>

#### <h4>Mount Everest</h4>

<p>The tallest mountain in the world, located in the Himalayas.</p>

##### <h5>Climbing Challenges</h5>

<p>Scaling Mount Everest requires immense preparation and skill.</p>

###### <h6>Historical Expeditions</h6>

<p>Learn about the early explorers who successfully reached the summit.</p>

#### <h4>Kilimanjaro</h4>

<p>A dormant volcanic mountain in Africa, known for its stunning landscapes.</p>

##### <h5>Wildlife</h5>

<p>The surrounding area is home to elephants, leopards, and unique bird species.</p>

## <h6>Tourism</h6>

<p>Kilimanjaro attracts thousands of hikers and climbers annually.</p>

</body>

</html>

---

## The Wonders of Nature

This book explores the beauty and complexity of the natural world, divided into forests, oceans, and mountains.

### Introduction

This section provides an overview of the book's themes and what readers can expect to learn.

### Chapter 1: Forests

This chapter discusses the various types of forests and their importance to the environment.

#### Types of Forests

Explore the different categories of forests found around the world.

##### Tropical Forests

Dense, lush forests found near the equator, known for their biodiversity.

##### Rainfall

Tropical forests receive high annual rainfall, often exceeding 2000mm.

##### Flora and Fauna

Tropical forests are home to diverse plant and animal species, including orchids and jaguars.

##### Temperate Forests

Forests located in temperate zones, characterized by distinct seasons.

### Chapter 2: Oceans

This chapter delves into the mysteries and significance of the world's oceans.

#### Marine Life

A closer look at the creatures that inhabit the oceans, from microscopic plankton to giant whales.

##### Coral Reefs

Known as the rainforests of the sea, coral reefs support a wide range of marine life.

##### Threats

Coral reefs are endangered due to climate change and pollution.

##### Conservation Efforts

Efforts like marine protected areas aim to safeguard coral reefs.

### Chapter 3: Mountains

This chapter highlights the majesty of mountains and their ecological significance.

#### Famous Peaks

Discover some of the world's most iconic mountain ranges and peaks.

##### Mount Everest

The tallest mountain in the world, located in the Himalayas.

### Chapter 3: Mountains

This chapter highlights the majesty of mountains and their ecological significance.

#### Famous Peaks

Discover some of the world's most iconic mountain ranges and peaks.

##### Mount Everest

The tallest mountain in the world, located in the Himalayas.

##### Climbing Challenges

Scaling Mount Everest requires immense preparation and skill.

##### Historical Expeditions

Learn about the early explorers who successfully reached the summit.

##### Kilimanjaro

A dormant volcanic mountain in Africa, known for its stunning landscapes.

##### Wildlife

The surrounding area is home to elephants, leopards, and unique bird species.

##### Tourism

Kilimanjaro attracts thousands of hikers and climbers annually.

**4.Create an HTML file that includes:**

- o A hyperlink to your favorite website using <a>
- o An image using <img> (you can use a random image URL from the internet)

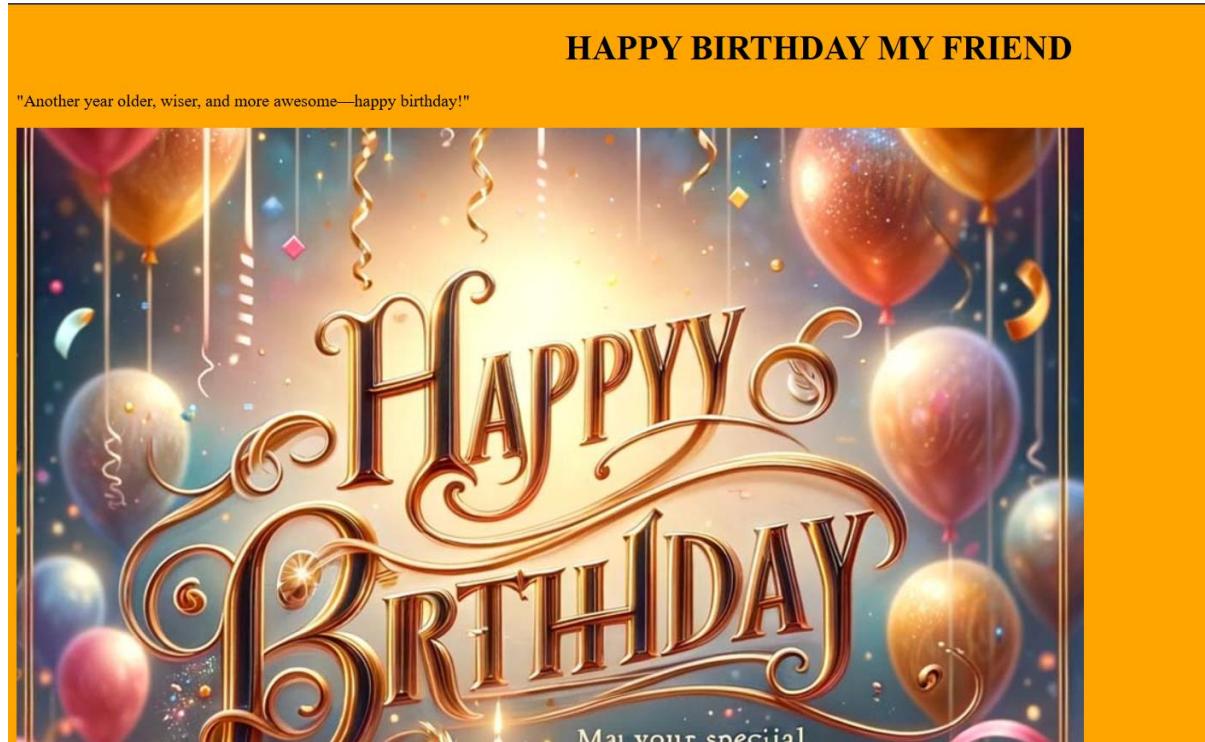
```
<!DOCTYPE html>
<HTML>
<HEAD>
<TITLE>My First HTML Page</TITLE>
<HEAD>
<BODY bgcolor="cyan">
<H1 align="middle">HYPERLINK</H1><BR>
<A href="https://www.youtube.com/">CLICK HERE TO GO TO YOUTUBE</A>
<IMG src="https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcRpxkR9ItvFiXpBPl6tulrDMLkQqnQpDqK-EwgfpYllakqPagl6bNSb27Df2spuWUHaSBwSYVypvr9Ye_pgLfIhOA">
</BODY>
</HTML>
```



**5. Create a simple HTML webpage to design a Greeting Card for any occasion (Christmas, new year, etc.). Include:**

- A background color or an image for the card.
- A title for the greeting (e.g., "Happy Birthday" or "Congratulations").
- A short message or a quote.
- An image

```
<!DOCTYPE html>
<HTML>
<HEAD>
<TITLE>My First HTML Page</TITLE>
<HEAD>
<BODY bgcolor="orange">
<H1 align="middle">HAPPY BIRTHDAY MY FRIEND</H1>
<P>"Another year older, wiser, and more awesome—happy birthday!"</P>
<IMG src="https://www.angroos.com/wp-content/uploads/2024/01/DALL%C2%B7E-2024-01-18-17.07.28-A-realistic-birthday-greeting-card-featuring-a-vibrant-celebratory-background.-In-the-center-_Happy-Birthday_-is-written-in-elegant-cursive-script.jpg">
</BODY>
</HTML>
```



# USER INTERFACE AND DESIGN

## LABSHEET2

DONE BY

ABHINAV P MADHU

AM.SC.U4AIE24002

Q1)

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Favourite Sites</title>
</head>
<body>
    <h1 align ="center" color="cyan">MY FAVOURITE SITES!</h1>
    <ol type="A">
        <li>FAVOURITE CAR SITES</li><ul type="disc">
            <li>https://www.toyotabharat.com/</li>
            <li>https://www.nissan.in/</li>
            <li>https://www.ferrari.com/</li>
        </ul>
        <li>USEFUL WEBSITES</li><ol>
            <li>https://www.w3schools.com/</li>
            <li>https://www.oracle.com/</li>
            <li>https://www.youtube.com/</li>
        </ol>
    </ol>
</body>
</html>
```

OUTPUT

## MY FAVOURITE SITES!

### .. FAVOURITE CAR SITES

- <https://www.toyotabharat.com/>
- <https://www.nissan.in/>
- <https://www.ferrari.com/>

### 3. USEFUL WEBSITES

1. <https://www.w3schools.com/>
2. <https://www.oracle.com/>
3. <https://www.youtube.com/>

Q2)

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Favourite Sites</title>
</head>
<body>
    <h1 align ="center" color="cyan">MY FAVOURITE SITES!</H1>
    <OL type="A">
        <li>FAVOURITE CAR SITES</li><ul type="disc">
            <li><a href="https://www.toyotabharat.com/">https://www.toyotabharat.com/</a></li>
            <li><a href="https://www.nissan.in/">https://www.nissan.in/</a></li>
            <li><a href="https://www.ferrari.com/">https://www.ferrari.com/</a></li>
        </ul>
        <li>USEFUL WEBSITES</li><OL>
            <LI><a href="https://www.w3schools.com/">https://www.w3schools.com/</a></LI>
            <LI><a href="https://www.oracle.com/">https://www.oracle.com/</a></LI>
            <LI><a href="https://www.youtube.com/">https://www.youtube.com/</a></LI>
        </OL>
    </OL>
</body>
</html>
```

OUTPUT

## MY FAVOURITE SITES!

### A. FAVOURITE CAR SITES

- <https://www.toyotabharat.com/>
- <https://www.nissan.in/>
- <https://www.ferrari.com/>

### B. USEFUL WEBSITES

1. <https://www.w3schools.com/>
2. <https://www.oracle.com/>
3. <https://www.youtube.com/>

Q3)

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Table site</title>
    <style>table{
        background-color:cyan}
        th{
            border: 1px solid black;
            padding: 10px;}
        td{
            border: 1px solid black;
            padding: 10px;}
    </style>
</head>
<body>
    <table>
        <tr>
            <th rowspan="3">day</th>
            <th colspan="3">seminar</th>
        </tr>
        <tr>
            <th colspan="2">schedule</th>
            <th rowspan="2">topic</th>
        </tr>
        <tr>
            <th>begin</th>
            <th>end</th>
        </tr>
        <tr>
            <td rowspan="2">Monday</td>
            <td rowspan="2" style="background-color: orange;">8:00 am</td>
            <td rowspan="2" style="background-color: blue;">5:00 pm</td>
```

```
        <td>Introduction to XML</td>
    </tr>
    <tr>
        <td>Validity DTD and Relax NG</td>
    </tr>
    <tr>
        <td rowspan="3">Tuesday</td>
        <td style="background-color: orange;">8:00 am</td>
        <td style="background-color: orange;">11:00 am</td>
        <td>XPath</td>
    </tr>
    <tr>
        <td style="background-color: orange;">11:00am</td>
        <td style="background-color: green;">2:00pm</td>
        <td rowspan="2">XSL Transformatics</td>
    </tr>
    <tr>
        <td style="background-color: green;">2:00pm</td>
        <td style="background-color: blue;">5:00pm</td>
    </tr>
    <tr>
        <td>Wednesday</td>
        <td style="background-color: orange;">8:00am</td>
        <td style="background-color: green;">12:00pm</td>
        <td>XSL Formatting Objects</td>
    </tr>
</table>
</body>
</html>
```

## OUTPUT

| day       | seminar  |          |                           |
|-----------|----------|----------|---------------------------|
|           | schedule |          | topic                     |
|           | begin    | end      |                           |
| Monday    | 8:00 am  | 5:00 pm  | Introduction to XML       |
|           |          |          | Validity DTD and Relax NG |
| Tuesday   | 8:00 am  | 11:00 am | XPath                     |
|           | 11:00am  | 2:00pm   | XSL Transformatics        |
|           | 2:00pm   | 5:00pm   |                           |
| Wednesday | 8:00am   | 12:00pm  | XSL Formatting Objects    |

Q4)

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Resume</title>
    <Style>DIV{background-color: lightgrey;
    font-size: larger;
    width: 700px;
    height: 200px;
    padding: 10px;
    border: 10px solid purple;
    }
    body{
        background-color:lightyellow;
    }</Style>
</head>
<body>
    <H1 align="center">MY RESUME</H1>
    <p>Name:Abhinav P Madhu</p>
    <H2>SUMMARY</H2>
    <Img src="C:\Users\sreej\Downloads\MY COLLEGE ASSIGNMENTS\SEMESTER
2\UID\Abhinav amrita.jpg" width="200px" align="right">
    <DIV>
        <P>Highly motivated and creative recent graduate with a Bachelor of
Science in Computer Science from Example University.
```

Possesses strong analytical and problem-solving skills, along with a solid foundation in software development and web technologies.

Eager to contribute to a challenging and innovative environment where I can learn and grow professionally.</P>

</DIV>

<H2>Education</H2>

<P>

<UL>

<LI>Bachelor of Science in Computer Science | Example University, Anytown, USA | May 2023</LI>

<LI>Relevant coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Management, Web Development, Software Engineering</LI>

<LI>GPA: 8.0</LI></UL></P>

<H2>Skills</H2>

<P><OL><LI>Programming Languages: Java, Python, JavaScript, C++</LI>

<LI>Web Technologies: HTML, CSS, JavaScript (ES6+), React, Node.js</LI>

<LI>Databases: MySQL, MongoDB</LI>

<LI>Tools & Technologies: Git, Docker, AWS, Agile methodologies</LI>

<LI>Other: Problem-solving, Communication (written and verbal), Teamwork</LI></OL></P>

<H2>Awards & Certifications</H2>

<P><UL><LI>Dean's List: Example University | 2020, 2021, 2022</LI>

<LI>Outstanding Project Award: Example University Computer Science Department | 2023</LI>

<LI>Certified AWS Cloud Practitioner | Amazon Web Services</LI></UL>

</P>

<H2>Hobbies</H2>

<UL>

<LI>Playing guitar, hiking, photography</LI>

</UL>

<H2>Contact Details</H2>

<UL>

<LI><A href="C:\Users\sreej\Downloads\MY COLLEGE ASSIGNMENTS\SEMESTER 2\UID\phone.html">My Contact Number</A></LI>

<LI><A href="C:\Users\sreej\Downloads\MY COLLEGE ASSIGNMENTS\SEMESTER 2\UID\email.html">My E-mail address</A></LI>

<LI><A href="https://www.linkedin.com/in/abhinav-p-madhu-a04791326?lipi=urn%3Ali%3Apag%3Ad\_learning\_content%3BqyYLQIBuRr039G3JHS0zDw%3D%3D&licu=urn%3Ali%3Acontrol%3Ad\_learning\_content-view\_profile">My LinkedIn Profile</A></LI>

</UL>

<footer>

<p>© 2025 ABHINAV P MADHU. All rights reserved.</p>

</footer>

```
</body>  
</html>
```

## OUTPUT

### MY RESUME

Name: Abhinav P Madhu

#### SUMMARY

Highly motivated and creative recent graduate with a Bachelor of Science in Computer Science from Example University. Possesses strong analytical and problem-solving skills, along with a solid foundation in software development and web technologies. Eager to contribute to a challenging and innovative environment where I can learn and grow professionally.



#### Education

- Bachelor of Science in Computer Science | Example University, Anytown, USA | May 2023
- Relevant coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Management, Web Development, Software Engineering
- GPA: 3.8

#### Skills

- Programming Languages: Java, Python, JavaScript, C++
- Web Technologies: HTML, CSS, JavaScript (ES6+), React, Node.js
- Databases: MySQL, MongoDB
- Tools & Technologies: Git, Docker, AWS, Agile methodologies
- Other: Problem-solving, Communication (written and verbal), Teamwork

#### Awards & Certifications

- Dean's List: Example University | 2020, 2021, 2022
- Outstanding Project Award: Example University Computer Science Department | 2023
- Certified AWS Cloud Practitioner | Amazon Web Services

#### Hobbies

- Playing guitar, hiking, photography

#### Contact Details

- My Contact Number
- My E-mail address
- My LinkedIn Profile

# USER INTERFACE AND DESIGN

## LABSHEET 3

DONE BY ABHINAV P MADHU  
AM.SC.U4AIE24002

1. Set the color of all `<p>` elements to red.(use internal styling)

```
<body>  
<h1>This is a heading</h1>  
<h2>This is a smaller heading</h2>  
<p>This is a paragraph</p>  
<p>This is a paragraph</p>  
</body>
```

### SOURCE CODE

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
    <meta charset="UTF-8">  
    <meta http-equiv="X-UA-Compatible" content="IE=edge">  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
    <title>Document</title>  
    <style>  
        p{  
            color: red;  
        }  
    </style>  
</head>  
<body>  
    <h1>This is a heading</h1>  
  
    <h2>This is a smaller heading</h2>  
  
    <p>This is a paragraph</p>  
    <p>This is a paragraph</p>  
</body>
```

```
</html>
```

OUTPUT

# This is a heading

## This is a smaller heading

This is a paragraph

This is a paragraph

2. Set the color of the element with id="para1", to red.

```
<body>
```

```
<h1>This is a heading</h1>
```

```
<p id="para1">This is a paragraph</p>
```

```
</body>
```

SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
        #para1 {
            color: red;
        }
    </style>
</head>
<body>
    <h1>This is a heading</h1>
    <p id="para1">This is a paragraph</p>
```

```
</body>
</html>
```

OUTPUT

# This is a heading

This is a paragraph

3. Set the color of all elements with the class colortext, to red.

```
<body>

<h1>This is a heading</h1>

<p>This is a paragraph</p>

<p class="colortext">This is a paragraph</p>

<p class="colortext">This is a paragraph</p>

</body>
```

SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
        p.colortext{
            color: red;
        }
    </style>
</head>
<body>
    <h1>This is a heading</h1>
    <p>This is a paragraph</p>
    <p class="colortext">This is a paragraph</p>
```

```
<p class="colortext">This is a paragraph</p>
</body>
</html>
```

## OUTPUT

# This is a heading

This is a paragraph

This is a paragraph

This is a paragraph

4. Change the color of all <p> and <h1> elements, to "red". Group the selectors to minimize code.

```
<body>

<h1>This is a heading</h1>

<h2>This is a smaller heading</h2>

<p>This is a paragraph</p>

<p>This is a paragraph</p>

</body>
```

## SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
        p, h1, h2{
```

```
        color: red;
    }
</style>
</head>
<body>
    <h1>This is a heading</h1>
    <h2>This is a smaller heading</h2>
    <p>This is a paragraph</p>
    <p>This is a paragraph</p>
</body>

</html>
```

OUTPUT

**This is a heading**

**This is a smaller heading**

This is a paragraph

This is a paragraph

5. Add an external style sheet with the URL: "mystyle.css".

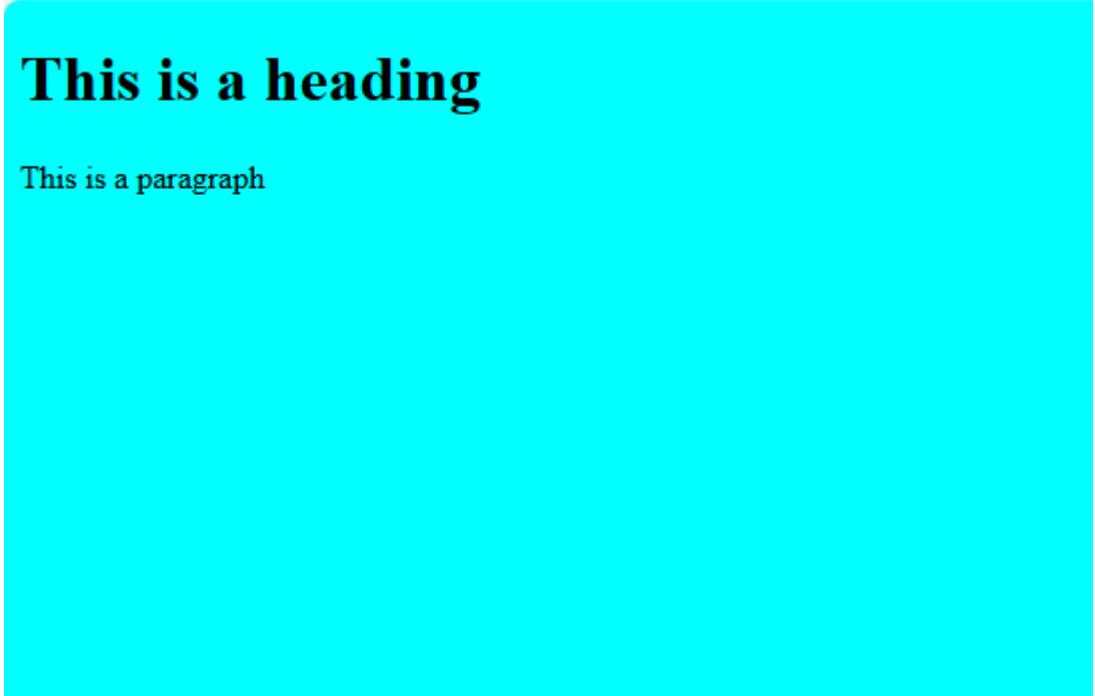
```
<head>
.....
</head>

<body>
<h1>This is a heading</h1>
<p>This is a paragraph</p>
</body>
```

## SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Document</title>
  <link rel="stylesheet" href="mystyle.css">
</head>
<body>
  <h1>This is a heading</h1>
  <p>This is a paragraph</p>
</body>
</html>
```

OUTPUT



# This is a heading

This is a paragraph

6. Set the page's background color to red. (use the same external style sheet)

```
<body>

<h1>This is a heading</h1>

<p>This is a paragraph</p>

<p>This is a paragraph</p>

</body>

<body>
```

```
<h1>This is a heading</h1>  
<p>This is a paragraph</p>  
<p>This is a paragraph</p>  
</body>
```

## SOURCE CODE

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
    <title>Document</title>  
    <link rel="stylesheet" href="mystyle.css">  
</head>  
6. Set the page's background color to red. (use the same external style sheet)  
  
<body>  
  
<h1>This is a heading</h1>  
  
<p>This is a paragraph</p>  
  
<p>This is a paragraph</p>  
  
</body>  
  
<body>  
  
<h1>This is a heading</h1>  
  
<p>This is a paragraph</p>  
  
<p>This is a paragraph</p>  
  
</body>  
</html>
```

```
# mystyle.css > body  
1  body{  
2      background-color: red;  
3  }
```

OUTPUT



This is a heading

This is a paragraph

7. Set the page's background color to red, by using an inline style.

```
<body style="background-color:red">  
<h1>This is a heading</h1>  
<p>This is a paragraph</p>  
<p>This is a paragraph</p>  
</body>
```

SOURCE CODE

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
<title>Document</title>  
</head>  
  
<body style="background-color:red">  
  
<h1>This is a heading</h1>  
  
<p>This is a paragraph</p>  
  
<p>This is a paragraph</p>
```

```
</body>
```

```
</html>
```

OUTPUT

# This is a heading

This is a paragraph

This is a paragraph

8. Set the background color of the `<h1>` element to "lightblue".

SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>

<body style="background-color:red">

<h1 style="background-color:lightblue">This is a heading</h1>

<p>This is a paragraph</p>

<p>This is a paragraph</p>

</body>
</html>
```

OUTPUT

# This is a heading

This is a paragraph

This is a paragraph

9. Use the border property to set a "4px", "dotted", "red" border for the <p> elements.

## SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>

<body>

<h1 style="background-color:lightblue">This is a heading</h1>

<p style="border:4px red dotted">This is a paragraph</p>

<p>This is a paragraph</p>

</body>
</html>
```

## OUTPUT

# This is a heading

This is a paragraph

This is a paragraph

10. Use the correct border property to add ROUNDED borders to the <p> elements.

## SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
    <style>
        p{
            border-radius: 50%;
            border:4px red dotted
        }
    </style>
</head>

<body>

<h1 style="background-color:lightblue">This is a heading</h1>

<p>This is a paragraph</p>

<p>This is a paragraph</p>

</body>
</html>
```

## OUTPUT

This is a heading

This is a paragraph

This is a paragraph

11. Add 20 pixels left margin to the <h1> element.

## SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
    <style>
        p{
```

```

        border-radius: 50%;
        border:4px red dotted
    }
    h1{
        margin-left: 20px;
    }
</style>
</head>

<body>

<h1 style="background-color:lightblue">This is a heading</h1>

<p>This is a paragraph</p>

<p>This is a paragraph</p>

</body>
</html>

```

OUTPUT

## This is a heading

This is a paragraph

This is a paragraph

12. Use the margin property to add 20 pixels top and bottom margins, and 40 pixels left and right margins, on the <h1> element.

SOURCE CODE

```

<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
    <style>
        p{
            border-radius: 50%;
            border:4px red dotted
        }
        h1{
            margin-left: 40px;
            margin-top: 20px;
            margin-bottom:20px ;
            margin-right: 40px;
        }
    </style>
</head>
<body>
<h1>This is a heading</h1>
<p>This is a paragraph</p>
<p>This is a paragraph</p>
</body>
</html>

```

```
        }
    </style>
</head>

<body>

<H1>This is a heading</h1>

<p>This is a paragraph</p>

<p>This is a paragraph</p>

</body>
</html>
```

## OUTPUT

# This is a heading

This is a paragraph

This is a paragraph

13. Use the margin property to center align the `<h1>` element.

## SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
    <style>
        p{
            border-radius: 50%;
            border:4px red dotted
        }
        h1{
            margin-left: 45%;
            margin-right: auto;
        }
    </style>
</head>
```

```
<body>

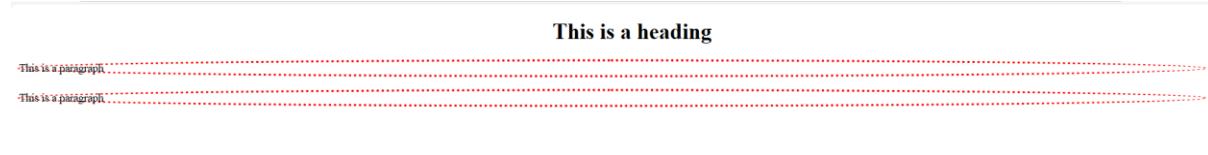
<H1>This is a heading</h1>

<p>This is a paragraph</p>

<p>This is a paragraph</p>

</body>
</html>
```

## OUTPUT



14. Set the top padding of the `<h1>` element to 30 pixels.

## SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
    <style>
        p{
            border-radius: 50%;
            border:4px red dotted
        }
        h1{
            text-align: center;
            padding-top: 30px;
        }
    </style>
</head>

<body>

<H1>This is a heading</h1>

<p>This is a paragraph</p>

<p>This is a paragraph</p>

</body>
</html>
```

## OUTPUT

**This is a heading**

-This is a paragraph

-This is a paragraph

15. Set the padding of all sides of the <h1> element to 30 pixels.

## SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
    <style>
        p{
            border-radius: 50%;
            border:4px red dotted
        }
        h1{
            text-align: center;
            padding-top: 30px;
            padding-bottom: 30px;
            padding-left: 30px;
            padding-right: 30px;
        }
    </style>
</head>

<body>

<H1>This is a heading</h1>

<p>This is a paragraph</p>

<p>This is a paragraph</p>

</body>
</html>
```

## OUTPUT

## This is a heading

-This is a paragraph.  
-This is a paragraph.

16. Use the shorthand padding property to add 10 pixels left and right padding, and 40 pixels top and bottom padding, on the <h1> element.

### SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
    <style>
        p{
            border-radius: 50%;
            border:4px red dotted
        }
        h1{
            text-align: center;
            padding: 10px 10px 40px 40px;
        }
    </style>
</head>

<body>

<h1>This is a heading</h1>

<p>This is a paragraph</p>

<p>This is a paragraph</p>

</body>
</html>
```

### OUTPUT

This is a heading

This is a paragraph  
This is a paragraph

17. Set the height of the `<h1>` element to "100px".

SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
    <style>
        p{
            border-radius: 50%;
            border:4px red dotted
        }
        h1{
            text-align: center;
            height: 100px;
        }
    </style>
</head>

<body>

<h1>This is a heading</h1>

<p>This is a paragraph</p>

<p>This is a paragraph</p>

</body>
</html>
```

OUTPUT

**This is a heading**

This is a paragraph  
This is a paragraph

18. Set the width of the `<h1>` element to "50%".

SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
    <style>
        p{
            border-radius: 50%;
            border: 4px red dotted
        }
        h1{
            text-align: center;
            height: 100px;
            width: 50%;
        }
    </style>
</head>

<body>

<h1>This is a heading</h1>

<p>This is a paragraph</p>

<p>This is a paragraph</p>

</body>
</html>
```

## OUTPUT

**This is a heading**

-This is a paragraph.....  
-This is a paragraph.....

19. Set the width of the <div> element to "200px".

```
<body>

<div>

Lorem ipsum dolor sit amet,
```

```
consectetur adipiscing elit,  
sed do eiusmod tempor incididunt  
ut labore et dolore magna aliqua.
```

```
</div>
```

```
</body>
```

SOURCE CODE

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
    <title>Document</title>  
    <style>  
        div{  
            width: 200px;  
        }  
    </style>  
</head>  
<body>  
  
    <div>  
  
        Lorem ipsum dolor sit amet,  
        consectetur adipiscing elit,  
        sed do eiusmod tempor incididunt  
        ut labore et dolore magna aliqua.  
  
    </div>  
  
</body>  
</html>
```

OUTPUT

**LOREM IPSUM**

**D**olor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

20. Add a 2px solid red border to the <div> element.

SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
    <style>
        div{
            width: 200px;
            border: 2px solid red;
        }
    </style>
</head>
<body>

    <div>

        Lorem ipsum dolor sit amet,
        consectetur adipiscing elit,
        sed do eiusmod tempor incididunt
        ut labore et dolore magna aliqua.

    </div>

</body>
</html>
```

## OUTPUT

21. Add 25 pixels space between the <div> element's border and it's content.

## SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
    <style>
        div{
            width: 200px;
            border: 2px solid red;
            padding: 25px;
        }
    </style>
</head>
<body>

    <div>

        Lorem ipsum dolor sit amet,
        consectetur adipiscing elit,
        sed do eiusmod tempor incididunt
        ut labore et dolore magna aliqua.

    </div>

</body>
</html>
```

## OUTPUT

Lorem ipsum dolor sit amet,  
  consectetur adipiscing elit, sed  
  do eiusmod tempor incididunt  
  ut labore et dolore magna  
  aliqua.

22. Add a 25 pixels space outside, to the left of the <div> element.

## SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
    <style>
        div{
            width: 200px;
            border: 2px solid red;
            padding: 25px;
            margin-left: 25px;
        }
    </style>
</head>
<body>

    <div>

        Lorem ipsum dolor sit amet,  

        consectetur adipiscing elit,  

        sed do eiusmod tempor incididunt  

        ut labore et dolore magna aliqua.

    </div>

</body>
```

```
</html>
```

## OUTPUT

---

Lorem ipsum dolor sit amet,  
  consectetur adipiscing elit, sed  
  do eiusmod tempor incididunt  
  ut labore et dolore magna  
  aliqua.

# **22AIE115 User Interface Design**

## **Lab Sheet 4**

**DONE BY ABHINAV P MADHU**

**AM.SC.U4AIE24002**

### **TOPICS**

1. When these links are clicked the corresponding sections should be displayed.

### **COURSE PLAN**

### **EVALUATION PATTERN**

### **COURSE PLAN**

| (week<br>vice) | Topics  | Keywords   | Resources  |
|----------------|---|--|--|
| 1              | Introduction<br>to Web Client/Server<br>- Web Server,<br>Application Server,<br>HTTP protocol | History,<br>Technologies<br>related to web   |  |
| 2              | CSS Basics. Features of<br>CSS- inline, internal and<br>external CSS                          | CSS syntax,<br>Colour, text align<br>, background<br>colour. Three<br>Different Ways<br>Of Implementing<br>Styles Within An<br>Html Page | <a href="#">css_intro.asp</a><br><a href="#">css_howto.asp</a><br><a href="#">html_css.asp</a><br><a href="#">selector_class.asp</a><br><a href="#">sel_id.asp</a> |

|                     |  |   |   |
|---------------------|--|---|---|
| 3                   | HTML anchor, list, table   | HTML elements related to anchor, list, table, th, tr, td, colspan, rowspan tags | <a href="#">linking.php</a><br><a href="#">html lists.asp</a><br><a href="#">tag_div.asp</a><br><a href="#">html tables.asp</a>                     |
| 4                   | HTML iframes, img, HTML5 elements- Graphics and Media, semantic tags | iframes, images and styling-boxmodel. semantic tags                             | <a href="#">html5 semantic elements.asp</a><br><a href="#">html iframe.asp</a><br><a href="#">html images.asp</a><br><a href="#">Graphics media</a> |
| <u>Periodical 1</u> |  |   |   |

#### EVALUATION PATTERN

| Evaluation Mechanism            | Breakup  | weightage |
|---------------------------------|--|-----------|
| Mid Term component              |  |           |
| Periodical                      | online - 5+5<br>Viva - 5+ 5  | 20        |
| Continuous evaluation Component |  |           |
| Continuous Evaluation           | Assignments – 10<br><br>project (individual) (phase I-HTML, CSS) - 10<br><br>Project (Group) (phase II- SRS document, Bootstrap , HTML, CSS, forms, event handling) - 20<br><br>Project (Group) (phase III- React js framework) - 10 | 50        |

2. Create an iframe here(below evaluation) with width and height 400 and scrolling. Name the iframe as "my\_area". Insert your picture here.
3. When links in the resources are clicked the webpage should be displayed here in "my\_area".

Note : - Some links may not be displayed in iframe, in that case open in new window.

## SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>table.table1{
        border: 1px solid black;
        border-collapse: collapse;
    }
    th{
        border: 1px solid black;
    }
    td{
        border: 1px solid black;
    }
    table{
        border: 5px solid black;
        border-collapse: collapse;
    }
    th{
        border: 5px solid black;
    }
    td{
        border: 5px solid black;
    }
    iframe{
        width: 400px;
        height: 400px;
    }
    </style>
</head>
```

```
<body>
    <A href="#COURSE PLAN">
        <H1>COURSE PLAN</H1></A>
        <A href="#EVALUATION PATTERN"><h1>EVALUATION PATTERN</h1></A>
        <h1 id="COURSE PLAN">COURSE PLAN</h1>
        <TABLE class="table1">
            <TR>
                <TH>(week vice)</TH>
                <TH>Topics</TH>
                <TH>Keywords</TH>
                <TH>Resources</TH>
            </TR>
            <TR>
                <TD>1</TD>
                <TD>Introduction to Web Client/Server - Web Server, Application Server, HTTP protocol</TD>
                <TD>History, Technologies related to web</TD>
                <TD> </TD>
            </TR>
            <TR>
                <TD>2</TD>
                <TD>CSS Basics. Features of CSS- inline, internal and external CSS</TD>
                <TD>CSS syntax, Colour, text align , background colour. Three Different Ways Of Implementing Styles Within An Html Page</TD>
                    <TD><A href="https://www.w3schools.com/css/css_intro.asp" target="my_area">css_intro.asp</A>
                        <A href="https://www.w3schools.com/css/css_howto.asp" target="my_area">css_howto.asp</A>
                            <A href="https://www.w3schools.com/html/html_css.asp" target="my_area">html_css.asp</A>
                                <A href="https://www.w3schools.com/html/selector_class.asp" target="my_area">selector_class.asp</A>
                                    <A href="https://www.w3schools.com/html/selector_class.asp" target="my_area">sel_id.asp</A>
                                </TD>
                    </TD>
                </TR>
                <TR>
                    <TD>3</TD>
                    <TD>HTML anchor, list, table</TD>
                    <TD>HTML elements related to anchor, list, table, th, tr, td, colspan, rowspan tags</TD>
                        <TD><A href="https://www.w3schools.com/html/linking.php" target="my_area">linking.php</A>

```

```

                <A href="https://www.w3schools.com/html/html_lists.asp"
target="my_area">html_lists.asp</A>
                <A href="https://www.w3schools.com/html/tag_div.asp"
target="my_area">tag_div.asp</A>
                <A href="https://www.w3schools.com/html/html_tables.asp"
target="my_area">html_tables.asp</A>
                </TD>
            </TR>
            <TR>
                <TD>4</TD>
                <TD>HTML iframes, img, HTML5 elements- Graphics and Media, semantic
tags</TD>
                <TD>iframes, images and styling- boxmodel. semantic tags</TD>
                <TD>
                    <A
href="https://www.w3schools.com/html/html5_semantic_elements.asp"
target="my_area">html5_semantic_elements.asp</A>
                    <A href="https://www.w3schools.com/html/html_iframe.asp"
target="my_area">html_iframe.asp</A>
                    <A href="https://www.w3schools.com/html/html_images.asp"
target="my_area">html_images.asp</A>
                    <A href="https://www.w3schools.com/html/html5_canvas.asp"
target="my_area">Graphics</A>
                    <A href="https://www.w3schools.com/html/html_media.asp"
target="my_area">media</A>
                    </TD>
                </TR>
                <TR>
                    <TD colspan="4" style="text-align: center; text-decoration:
underline;">Periodical 1</TD>
                </TR>
            </TABLE>

            <H1 id="EVALUATION PATTERN">EVALUATION PATTERN</H1>
            <TABLE>
                <TR>
                    <Th>Evaluation Mechanism</Th>
                    <TH>Breakup</TH>
                    <TH>weightage</TH>
                </TR>
                <TR>
                    <TD colspan="3">Mid Term component</TD>
                </TR>
                <Tr>
                    <td class="td1">Periodical</td>

```

```

<td>online - 5+5
      Viva - 5+ 5
      </td>
<td>20</td>
</Tr>
<Tr>
      <TD colspan="3">Continuous evaluation Component</TD>
</Tr>
<Tr>
      <TD rowspan="4">Continuous Evaluation</TD>
      <Td>Assignments - 10</Td>
      <TD rowspan="4">50</TD>
</Tr>
<TR>
      <TD>project (individual) (phase 1-HTML, CSS) - 10 </TD>
</TR>
<TR>
      <TD>Project (Group) (phase II-SRS document, Bootstrap , HTML, CSS, forms, event handling) - 20 </TD>
      </TR>
      <TR>
          <TD>Project (Group) (phase III- React js framework) - 10 </TD>
      </TR>
</TABLE>
<iframe src="https://picsum.photos/id/237/400/400" name="my_area"
width="400px" height="400px"></iframe>
</body>
</html>

```

## OUTPUT

## COURSE PLAN

### EVALUATION PATTERN

#### **COURSE PLAN**

| (week vice) | Topics  | Keywords  | Resources  |
|-------------|---|---|--|
| 1           | Introduction to Web Client/Server - Web Server, Application Server, HTTP protocol | History; Technologies related to web  |  |
| 2           | CSS Basics, Features of CSS- inline, internal and external CSS                    | CSS syntax, Colour, text align , background colour. Three Different Ways Of Implementing Styles Within An Html Page | <a href="#">css_intro.asp</a> <a href="#">css_howto.asp</a> <a href="#">html_css.asp</a> <a href="#">selector_class.asp</a> <a href="#">id.asp</a> |
| 3           | HTML anchor, list, table  | HTML elements related to anchor, list, table, th, tr, td, colspan, rowspan tags                                     | <a href="#">linking.php</a> <a href="#">lists.asp</a> <a href="#">tag_div.asp</a> <a href="#">html_tables.asp</a>                                  |
| 4           | HTML iframes, img, HTML5 elements- Graphics and Media, semantic tags              | iframes, images and styling- boxmodel, semantic tags  | <a href="#">html5_semantic_elements.asp</a> <a href="#">html_iframe.asp</a> <a href="#">html_images.asp</a> <a href="#">Graphics media</a>         |
|             |   | Periodical 1  |  |

#### **EVALUATION PATTERN**

| Evaluation Mrchanism            | Breakup   | weightage |
|---------------------------------|---|-----------|
| Mid Term component              |   |           |
| Periodical                      | online - 5+5 Viva - 5+ 5  | 20        |
| Continuous evaluation Component |   |           |
| Continuous Evaluation           | Assignments - 10<br>project (individual) (phase I-HTML, CSS) - 10<br>Project (Group) (phase II-SRS document, Bootstrap , HTML, CSS, forms, event handling) - 20<br>Project (Group) (phase III- React js framework) - 10 | 50        |

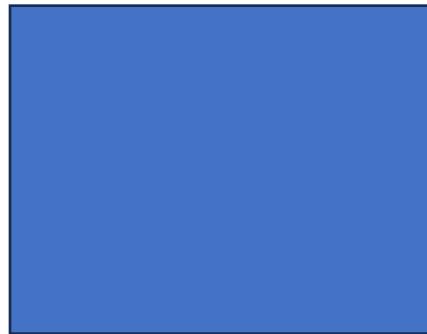
The screenshot shows the W3Schools website interface. At the top, there's a navigation bar with a logo, a 'Menu' dropdown, a search icon, a user status indicator ('Log in'), and a green button. Below the navigation is a horizontal menu bar with tabs: 'HTML' (which is highlighted in green), 'CSS', 'JAVASCRIPT', 'SQL', and 'PHP'. Underneath the menu, the page title 'HTML Styles - CSS' is displayed in bold black text. Below the title are two green buttons labeled '< Previous' and 'Next >'. The main content area contains text about CSS and its benefits.

#### **EVALUATION PATTERN**

| Evaluation Mrchanism            | Breakup   | weightage |
|---------------------------------|---|-----------|
| Mid Term component              |   |           |
| Periodical                      | online - 5+5 Viva - 5+ 5  | 20        |
| Continuous evaluation Component |   |           |
| Continuous Evaluation           | Assignments - 10<br>project (individual) (phase I-HTML, CSS) - 10<br>Project (Group) (phase II-SRS document, Bootstrap , HTML, CSS, forms, event handling) - 20<br>Project (Group) (phase III- React js framework) - 10 | 50        |

The screenshot shows the 'HTML Styles - CSS' page from W3Schools. At the top, there's a navigation bar with a logo, a 'Menu' dropdown, a search icon, a user status indicator ('Log in'), and a green button. Below the navigation is a horizontal menu bar with tabs: 'HTML' (highlighted in green), 'CSS', 'JAVASCRIPT', 'SQL', and 'PHP'. The main content area has a heading 'HTML Styles - CSS'. Below the heading are two green buttons: '< Previous' and 'Next >'. The text content discusses what CSS is and its benefits.

- 4) Create a html page placing images inside the box



## 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>
    <style>
        .container {
            display: grid;
            grid-template-columns: repeat(2, 200px);
            gap: 20px;
            justify-content: center;
            margin-top: 50px;
        }
        .box {
            width: 200px;
            height: 150px;
        }
    </style>

```

```

        border: 2px solid black;
        display: flex;
        align-items: center;
        justify-content: center;
        background-color: lightgray;
    }
    .box img {
        max-width: 100%;
        max-height: 100%;
    }

```

</style>

</head>

<body>

<h2 style="text-align: center;">Image Boxes</h2>

<div class="container">

<div class="box"></div>

<div class="box"></div>

<div class="box"></div>

<div class="box"></div>

</div>

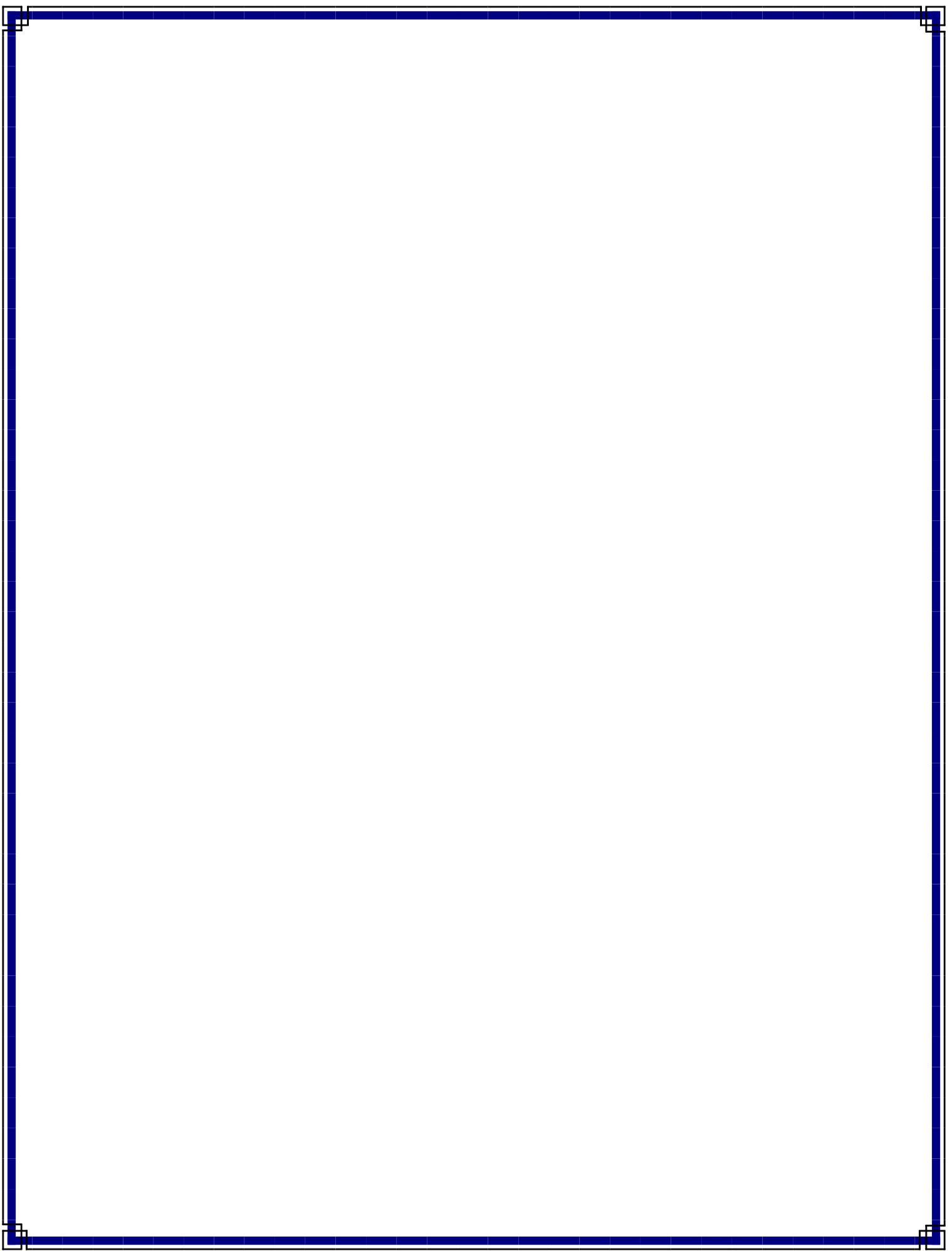
</body>

</html>

# OUTPUT

## Image Boxes





**Amrita School of Computing**

**Department of Computer Science & Engineering**

**22AIE115 User Interface Design**

**Lab Sheet 5**

**DONE BY ABHINAV P MADHU**

**AM.SC.U4AIE24002**

1. Write HTML code to create the given forms

## Order Form

**Name**

**Phone**

**Email**

**Preferred product**

- Product 1
- Product 2
- Product 3

**Delivery Address**

**Terms of Service**

- I agree to the terms of service.

**ORDER NOW**

SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Order Form</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            background-color: #f8f8f8;
        }
        .form-container {
            background-color: white;
            padding: 20px;
            border-radius: 8px;
            width: 400px;
            border: 1px solid #ccc;
        }
        .form-container h2 {
            text-align: center;
        }
        .form-group {
            margin-bottom: 15px;
        }
        .form-group input, .form-group textarea {
            width: 100%;
            padding: 8px;
            border: 1px solid #ccc;
            border-radius: 4px;
            box-sizing: border-box;
        }
        .form-group textarea {
            height: 80px;
        }
        .form-group .radio-group {
            display: flex;
            flex-direction: column;
            gap: 10px;
        }
        .form-group input[type="radio"] {
            width: auto;
```

```
        margin-right: 5px;
    }
.submit-btn {
    background-color: #008cdd;
    color: white;
    padding: 10px;
    border: none;
    width: 100%;
    border-radius: 4px;
    font-size: 16px;
}
</style>
</head>
<body>

<div class="form-container">
    <h2>Order Form</h2>
    <form>
        <div class="form-group">
            <label for="name">Name</label>
            <input type="text" id="name" name="name" required>
        </div>

        <div class="form-group">
            <label for="phone">Phone</label>
            <input type="tel" id="phone" name="phone" required>
        </div>

        <div class="form-group">
            <label for="email">Email</label>
            <input type="email" id="email" name="email" required>
        </div>

        <div class="form-group">
            <label>Preferred product</label>
            <div class="radio-group">
                <label><input type="radio" id="product1" name="product" >
Product 1</label>
                <label><input type="radio" id="product2" name="product" >
Product 2</label>
                <label><input type="radio" id="product3" name="product" >
Product 3</label>
            </div>
        </div>

        <div class="form-group">
            <label for="address">Delivery Address</label>
            <textarea id="address" name="address" required></textarea>
        </div>
    </form>
</div>
```

```
</div>

<div class="form-group terms">
    <input type="radio" id="terms" name="terms" required>
    <label for="terms">I agree to the terms of service.</label>
</div>

    <button type="submit" class="submit-btn">ORDER NOW</button>
</form>
</div>

</body>
</html>
```

OUTPUT

---

## Order Form

Name

Phone

Email

Preferred product

Product 1

Product 2

Product 3

Delivery Address

I agree to the terms of service.

**ORDER NOW**

## Product Request Form

**Identifying Information**

First Name:  Last Name:   
 Email address:  Street Address:  City:  State:  Zipcode:

**Selections**

### Color Selection

Red  Blue  Green  White  Black

### Product Selection

Rug  Quantity  Sweater  Quantity  Curtain  Quantity  Towel  Quantity

**Shipping Selection**  
 Select type of shipping

Submit your order

Enter any special instructions

## SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Product Request Form</title>
    <style>
        body {
            font-family: Arial, sans-serif;
        }
        .container {
            width: 100%;
            margin: auto;
            border: 1px solid black;
            padding: 20px;
        }
        .section {
            margin-bottom: 15px;
        }
        textarea {
            width: 100%;
            height: 80px;
        }
        .nsection{
            display: flex;
        }
    </style>
</head>
<body>
    <FORM>
        <div class="container">
            <h2>Product Request Form</h2>
```

```

<div class="section">
    <fieldset>
        <legend>Identifying Information</legend>
        <label>First Name: <input type="text" name="firstName"></label>
        <label>Last Name: <input type="text" name="lastName"></label><br>
        <label>Email address: <input type="email"
name="email"></label><br>
        <label>Street Address: <input type="text" name="street"></label>
        <label>City: <input type="text" name="city"></label>
        <label>State: <input type="text" name="state"></label>
        <label>Zipcode: <input type="text" name="zipcode"></label>
    </div>
</fieldset>
<fieldset>
    <legend>Selections</legend>
    <div class="section">

        <h3>Color Selection</h3>
        <label><input type="radio" name="color" value="Red"> Red</label>
        <label><input type="radio" name="color" value="Blue"> Blue</label>
        <label><input type="radio" name="color" value="Green">
Green</label>
        <label><input type="radio" name="color" value="White">
White</label>
        <label><input type="radio" name="color" value="Black">
Black</label>
    </div>

    <div class="nsection">
        <h3>Product Selection</h3>
        <label><input type="checkbox" name="product" value="Rug"> Rug
<input type="number" name="rugQty" min="1"></label><br>
        <label><input type="checkbox" name="product" value="Sweater">
Sweater <input type="number" name="sweaterQty" min="1"></label><br>
        <label><input type="checkbox" name="product" value="Curtain">
Curtain <input type="number" name="curtainQty" min="1"></label><br>
        <label><input type="checkbox" name="product" value="Towel"
checked> Towel <input type="number" name="towelQty" min="1" value="2"></label>
    </div>
    </fieldset>
    <div class="section">
        <fieldset>
            <legend>Shipping Selection</legend>
            <select name="shipping">
                <option value="standard">Standard Shipping</option>
                <option value="oneDay" selected>One Day Shipping</option>
                <option value="express">Express Shipping</option>
            </select>
        </fieldset>
    </div>

```

```

        </div>
    </fieldset>
    <fieldset>
        <legend>Submit your order</legend>
        <div class="section">
            <textarea name="specialInstructions" placeholder="Enter any
special instructions"></textarea>
        </div>

        <button type="submit">Submit</button>
    </div>
</fieldset>
</FORM>
</body>
</html>

```

## OUTPUT

### Product Request Form

Identifying Information

First Name:  Last Name:   
 Email address:  Street Address:  City:  State:  Zipcode:

Selections

**Color Selection**

Red  Blue  Green  White  Black  
 Rug  Sweater  Curtain  Towel

**Product Selection**

**Shipping Selection**

One Day Shipping

Submit your order

Enter any special instructions

# Travel reservation form

\* denotes mandatory

Full name\*:

Email address\*:

Select Tour Package\* :

Arrival date\*:

Number of persons\*:

What would you want to avail?\*

Boarding

Fooding

Sight seeing

Discount Coupon code:

Terms and conditions\*

I agree  I disagree

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Travel Reservation Form</title>
    <style>
        body {
            font-family: Arial, sans-serif;
        }

        .section {
            margin-bottom: 15px;
        }
        input, select, textarea {
            width: 100%;
            padding: 5px;
            margin: 5px 0;
        }
        .checkbox-group label {
            display: block;
        }
    </style>

```

```

        }
    </style>
</head>
<body>
<div class="container">
    <h2>Travel Reservation Form</h2>
    <p><strong>* denotes mandatory</strong></p>

    <form>
        <label>Full name*:</label>
        <input type="text" name="fullName" placeholder="FirstName LastName" required>

        <label>Email address*:</label>
        <input type="email" name="email" placeholder="EMAIL_ADDRESS" required>

        <label>Select Tour Package*</label>
        <select name="tourPackage" required>
            <option value="Goa">Goa</option>
            <option value="Paris">Paris</option>
            <option value="Maldives">Maldives</option>
        </select>

        <label>Arrival date*</label>
        <input type="date" name="arrivalDate" required>

        <label>Number of persons*</label>
        <input type="number" name="numPersons" min="1" required>

        <label>What would you want to avail?*</label>
        <div class="checkbox-group">
            <label><input type="checkbox" name="boarding"> Boarding</label>
            <label><input type="checkbox" name="fooding"> Fooding</label>
            <label><input type="checkbox" name="sightseeing"> Sightseeing</label>
        </div>

        <label>Discount Coupon code:</label>
        <input type="text" name="couponCode">

        <label>Terms and conditions*</label>
        <label><input type="radio" name="terms" value="agree" required> I agree</label>
        <label><input type="radio" name="terms" value="disagree" required> I disagree</label>
    </form>
</div>

```

```

        <button type="submit">Complete reservation</button>
    </form>
</div>
</body>
</html>

```

## OUTPUT

---

### Travel Reservation Form

\* denotes mandatory

Full name\*:

Email address\*:

Select Tour Package\*:



Arrival date\*:



Number of persons\*:

What would you want to avail?\*



Boarding



Fooding



Sightseeing

Discount Coupon code:

Terms and conditions\*



I agree



- Write a media query that changes the **background color** of a webpage to **yellow** when the screen width is less than **600px**.

```

@media screen and (max-width: 600px) {
    body {
        background-color: yellow;
    }
}

```

3. Create a media query that increases the **font size of all paragraphs (<p>)** to **18px** when the screen width is greater than **800px**.

```
@media screen and (min-width: 801px) {  
    p {  
        font-size: 18px;  
    }  
}
```

4. Design a **responsive navigation bar** that:

- a. Displays items **horizontally** when the screen width is above **768px**.
- b. Stacks items **vertically** when the screen width is below **768px**.

#### SOURCE CODE

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
    <meta charset="UTF-8">  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
    <title>Responsive Navbar</title>  
    <style>  
        * {  
            margin: 0;  
            padding: 0;  
            box-sizing: border-box;  
        }  
  
        body {  
            font-family: Arial, sans-serif;  
        }  
  
        .navbar {  
            background-color: #333;  
            padding: 10px;  
        }  
  
        .nav-links {  
            list-style: none;  
            display: flex;  
            justify-content: center;  
        }  
  
        .nav-links li {  
            margin: 0 15px;  
        }  
  
        .nav-links a {
```

```
        text-decoration: none;
        color: white;
        font-size: 18px;
        padding: 10px 15px;
        display: block;
    }

    .nav-links a:hover {
        background-color: #555;
        border-radius: 5px;
    }

    @media screen and (max-width: 768px) {
        .nav-links {
            flex-direction: column;
            align-items: center;
        }

        .nav-links li {
            margin: 10px 0;
        }
    }

```

</style>

</head>

<body>

```
<nav class="navbar">
    <ul class="nav-links">
        <li><a href="#">Home</a></li>
        <li><a href="#">About</a></li>
        <li><a href="#">Services</a></li>
        <li><a href="#">Contact</a></li>
    </ul>
</nav>

</body>
</html>
```

OUTPUT

Home

About

Services

Contact

5. Create a **two-column layout** that:

- Uses a **50%-50% split** when the screen is **above 1024px**.
- Adjusts to a **single column** when the screen width is **below 1024px**.

SOURCE CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Responsive Two-Column Layout</title>
    <style>
        * {
            margin: 0;
            padding: 0;
            box-sizing: border-box;
        }

        body {
            font-family: Arial, sans-serif;
        }

        .container {
            display: flex;
            flex-wrap: wrap;
            padding: 20px;
        }

        .column {
            flex: 1;
            padding: 20px;
            background-color: #f4f4f4;
            border: 1px solid #ddd;
            text-align: center;
        }

        @media screen and (min-width: 1025px) {
            .column {
                width: 50%;
            }
        }

        @media screen and (max-width: 1024px) {
            .column {
                width: 100%;
            }
        }
    </style>
</head>
<body>
    <div class="container">
        <div class="column">
            Column 1 Content
        </div>
        <div class="column">
            Column 2 Content
        </div>
    </div>
</body>
</html>
```

```
</style>
</head>
<body>

<div class="container">
    <div class="column">Column 1</div>
    <div class="column">Column 2</div>
</div>

</body>
</html>
```

## OUTPUT

---

|          |          |
|----------|----------|
| Column 1 | Column 2 |
|----------|----------|

# USER INTERFACE AND DESIGN

## LABSHEET 6

DONE BY ABHINAV P MADHU

AM.SC.U4AIE24002

- 1) Write JavaScript program to find the square root.

Test case1 - 2.25

Test Case2 - -4

Testcase 3 – Hello

SOURCE CODE

```
<!DOCTYPE html>
<html>
<head>
    <title>Square Root Calculator</title>
</head>
<body>
    <h2>Square Root Calculator</h2>
    <input type="text" id="numberInput" placeholder="Enter a number">
    <button onclick="calculateSquareRoot()">Calculate</button>
    <p id="result"></p>

    <script>
        function calculateSquareRoot() {
            const input = document.getElementById('numberInput').value;
            const num = parseFloat(input);
            const resultElement = document.getElementById('result');
            if (isNaN(num)) {
                resultElement.innerText = "Input is not a valid number.";
            } else if (num < 0) {
                resultElement.innerText = `Cannot find the square root of a negative
number.`;
            } else {
                const result = Math.sqrt(num);
                resultElement.innerText = `The square root of ${num} is ${result}`;
            }
        }
    </script>
</body>
</html>
```

OUTPUT

---

## Square Root Calculator

The square root of 2.25 is 1.5

## Square Root Calculator

Cannot find the square root of a negative number.

## Square Root Calculator

Input is not a valid number.

2. Guess a random number from 1 to 10.

Use Math.random() to generate the number, other Methods are Math.floor()

[SOURCE CODE](#)

---

## Random Number Guessing Game

You loose Then Random Number is 4

3. Print today's date in the following manner.

dd:mm:yyyy

SOURCE CODE

```
<!DOCTYPE html>
<html>
<head>
    <title>Today's Date</title>
</head>
<body>
    <h2>Today's Date</h2>
    <p id="dateOutput"></p>

    <script>
        function DateMaker() {
            const today = new Date();
            let day = today.getDate();
            let month = today.getMonth() + 1;
            const year = today.getFullYear();

            if (day < 10){
                day = '0' + day;
            }
            if (month < 10) {
                month = '0' + month;
            }
            const final = `${day}-${month}-${year}`;
            document.getElementById("dateOutput").innerText = final;
        }

        DateMaker();
    </script>
</body>
</html>
```

OUTPUT

**Today's Date**

26-05-2025

## SOURCE CODE

```
<!DOCTYPE html>
<html>
<head>
    <title>Days Until New Year</title>
</head>
<body>
    <h2>Days Left Until Next New Year</h2>
    <p id="daysLeft"></p>

    <script>
        function daysUntilNewYear() {
            const today = new Date();
            const nextYear = today.getFullYear() + 1;
            const newYear = new Date(nextYear, 0, 1);
            const Diff = newYear - today;
            const daysLeft = Math.ceil(Diff / (1000 * 60 * 60 * 24));
            document.getElementById("daysLeft").innerText =
                `${daysLeft} days left until New Year ${newYear.toDateString()}`;
        }

        daysUntilNewYear();
    </script>
</body>
</html>
```

## OUTPUT

---

# Days Left Until Next New Year

220 days left until New Year (Thu Jan 01 2026)

5. Write JavaScript programs to find the index of locate from this string.

"Please locate where 'locate' occurs!";

## SOURCE CODE

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

```

<head>
  <title>Find Index of "locate"</title>
</head>
<body>
  <h2>Find Index of "locate"</h2>
  <p id="result"></p>

  <script>
    const text = "Please locate where 'locate' occurs!";
    const index = text.indexOf("locate");
    document.getElementById("result").innerText = `The word "locate" first
occurs at index: ${index}`;
  </script>
</body>
</html>

```

OUTPUT

## Find Index of "locate"

The word "locate" first occurs at index: 7

6. Convert the first letter of the string to capital letters.

Input : javaScript

OutPut : JavaScript

SOURCE CODE

```

<!DOCTYPE html>
<html>
<head>
  <title>Capitalize First Letter</title>
</head>
<body>
  <h2>Capitalize First Letter</h2>
  <input type="text" id="input">

```

```

<button onclick="Capitalize()">Capitalize</button>
<p id="result"></p>

<script>
  function Capitalize(){
    const inputValue = document.getElementById("input").value;
    const output = inputValue.charAt(0).toUpperCase() + inputValue.slice(1);
    document.getElementById("result").innerText = `Output: ${output}`;
  }
</script>
</body>
</html>

```

OUTPUT

## Capitalize First Letter

|            |            |
|------------|------------|
| javaScript | Capitalize |
|------------|------------|

Output: JavaScript

7. Load an image. Have a button below. When you click the button, another image should be loaded

SOURCE CODE

```

<!DOCTYPE html>
<html>
<head>
  <title>Image Switcher</title>
</head>
<body>
  <h2>Image Loader</h2>
  
  <br><br>

```

```
<button onclick="changeImage()">Load Another Image</button>

<script>
  function changeImage() {
    const image = document.getElementById("myImage");
    image.src = "https://images.unsplash.com/photo-1747913647304-9f298ff28ff4?q=80&w=2070&auto=format&fit=crop&ixlib=rb-4.1.0&ixid=M3wxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8fA%3D%3D";
  }
</script>
</body>
</html>
```

OUTPUT

## Image Loader



[Load Another Image](#)

## Image Loader



[Load Another Image](#)

8. Display-4) 3 check boxes which has text Red , Blue , Green. When Red is clicked, the background becomes red, similarly for other colours.

## SOURCE CODE

```
<!DOCTYPE html>
<html>
<head>
    <title>Background Color Changer</title>
</head>
<body>
    <h2>Select a Color</h2>

    <label><input type="checkbox" id="color1" name="color1" value="red" onclick="changeColor()"> Red</label><br>
    <label><input type="checkbox" id="color2" name="color2" value="blue" onclick="changeColor()"> Blue</label><br>
    <label><input type="checkbox" id="color3" name="color3" value="green" onclick="changeColor()"> Green</label><br>

    <script>
        function changeColor() {
            const c1 = document.getElementById('color1');
            const c2 = document.getElementById('color2');
            const c3 = document.getElementById('color3');

            if (c3.checked) {
                document.body.style.backgroundColor = c3.value;
            } else if (c2.checked) {
                document.body.style.backgroundColor = c2.value;
            } else if (c1.checked) {
                document.body.style.backgroundColor = c1.value;
            } else {
                document.body.style.backgroundColor = 'white';
            }
        }
    </script>
</body>
</html>
```

## OUTPUT



## Select a Color

- Red
- Blue
- Green

## Select a Color

- Red
- Blue
- Green

9. Write a program to create a button, once the button is clicked keep adding paragraphs

(modify getelement.html)

SOURCE CODE

```
<!DOCTYPE html>
<html>

<head>
    <title>JavaScript getDate() Method</title>
    <style>
        .democlass {
            color: red;
        }
    </style>
</head>
<body style="text-align:center;">
    <h1>Get element</h1>
    <h2>JavaScript getDate()</h2>
    <p id="ID1"></p>
    <p>TEST</p>
    <button onclick="addNewParagraph()">Add Paragraph</button>
    <script>
        var d = new Date();
        document.getElementById("ID1").innerHTML = d.getDate();
        var x = document.getElementsByTagName("p");
        x[1].innerHTML = d.getFullYear();
        function addNewParagraph() {
            var new_para = document.createElement("p");
            new_para.innerHTML = "Added a NEW PARA";
        }
    </script>
</body>

```

```
    new_para.setAttribute("class", "democlass");
    document.body.appendChild(new_para);
}
</script>
</body>

</html>
```

OUTPUT

# Get element

## JavaScript getDate()

26

2025

Add Paragraph

Added a NEW PARA

# LABSHEET 7

## UID

DONE BY ABHINAV P MADHU

AM.SC.U4AIE24002

1. Write HTML and java code to append “water” to the following on click of a button. Change the styles. Font family and colour. Choose anything. Change for all 3 line items.
  - o Coffee
  - o Tea

### SOURCE CODE

```
<!DOCTYPE html>
<html>
<head>
<title>Drink List</title>
<style>
.drinkitem {
    font-family: 'Arial', sans-serif;
    color: darkgreen;
    font-size: 20px;
    margin: 5px 0;
}

#appendBtn {
    padding: 8px 16px;
    font-family: 'Courier New', monospace;
    background-color: lightblue;
}
</style>
</head>
<body>

<ul id="drinkList">
    <li class="drinkitem">Coffee</li>
    <li class="drinkitem">Tea</li>
</ul>

<button id="appendBtn" onclick="addWater()">Add Water</button>

<script>
    function addWater() {
```

```
const list = document.getElementById("drinkList");

const newItem = document.createElement("li");
newItem.className = "drinkitem";
newItem.innerText = "Water";

list.appendChild(newItem);
}

</script>

</body>
</html>
```

## OUTPUT

- Coffee
- Tea

Add Water

- Coffee
- Tea
- Water

Add Water

2. Write a JavaScript program to design student registration form and perform following validation:
- Check all fields should not contain a null value
  - Check name field contains only alphabets
  - Mobile No field should be of 10 digits
  - Pin code field should be of 06 digits

**Student Registration Form**

|                                       |                                      |
|---------------------------------------|--------------------------------------|
| Name of Student                       | <input type="text"/>                 |
| Mobile No                             | <input type="text"/>                 |
| Address Line                          | <input type="text"/>                 |
| City                                  | <input type="text"/>                 |
| State                                 | <input type="text"/>                 |
| Pincode                               | <input type="text"/>                 |
| <input type="button" value="Submit"/> | <input type="button" value="Reset"/> |

#### SOURCE CODE

```
<!DOCTYPE html>
<html>
<head>
    <title>Student Registration Form</title>
    <script>
        function validateForm() {
            var name = document.getElementById("name").value.trim();
            var mobile = document.getElementById("mobile").value.trim();
            var address = document.getElementById("address").value.trim();
            var city = document.getElementById("city").value.trim();
            var state = document.getElementById("state").value.trim();
            var pincode = document.getElementById("pincode").value.trim();

            if (!name || !mobile || !address || !city || !state || !pincode) {
                alert("All fields are required.");
                return false;
            }

            if (!/^([A-Za-z\s]+)$/.test(name)) {
                alert("Name must contain only alphabets.");
                return false;
            }
        }
    </script>
</head>
<body>
    <form>
        <table border="1">
            <tr>
                <td>Name of Student</td>
                <td><input type="text"/></td>
            </tr>
            <tr>
                <td>Mobile No</td>
                <td><input type="text"/></td>
            </tr>
            <tr>
                <td>Address Line</td>
                <td><input type="text"/></td>
            </tr>
            <tr>
                <td>City</td>
                <td><input type="text"/></td>
            </tr>
            <tr>
                <td>State</td>
                <td><input type="text"/></td>
            </tr>
            <tr>
                <td>Pincode</td>
                <td><input type="text"/></td>
            </tr>
            <tr>
                <td><input type="button" value="Submit"/></td>
                <td><input type="button" value="Reset"/></td>
            </tr>
        </table>
    </form>
</body>
</html>
```

```

if (!/\^\\d{10}$.test(mobile)) {
    alert("Mobile number must be exactly 10 digits.");
    return false;
}

if (!/\^\\d{6}$.test(pincode)) {
    alert("Pincode must be exactly 6 digits.");
    return false;
}

alert("Form submitted successfully!");
return true;
}
</script>
</head>
<body>

<h2>Student Registration Form</h2>
<form onsubmit="return validateForm()">
    Name of Student:<br>
    <input type="text" id="name"><br><br>

    Mobile No:<br>
    <input type="text" id="mobile"><br><br>

    Address Line:<br>
    <input type="text" id="address"><br><br>

    City:<br>
    <input type="text" id="city"><br><br>

    State:<br>
    <input type="text" id="state"><br><br>

    Pincode:<br>
    <input type="text" id="pincode"><br><br>

    <input type="submit" value="Submit">
    <input type="reset" value="Reset">
</form>

</body>
</html>

```

OUTPUT

# Student Registration Form

Name of Student:

Mobile No:

Address Line:

City:

State:

Pincode:

**Student Registration Form**

Name of Student:

Mobile No:

Address Line:

City:

State:

Pincode:

This page says  
Name must contain only alphabets.

**Student Registration Form**

Name of Student:

Mobile No:

Address Line:

City:

State:

Pincode:

This page says  
Pincode must be exactly 6 digits.

**Student Registration Form**

|                  |  |
|------------------|--|
| Name of Student: | <input type="text" value="abhi"/>        |
| Mobile No:       | <input type="text" value="9061489062"/>  |
| Address Line:    | <input type="text" value="1234 street"/> |
| City:            | <input type="text" value="Kollam"/>      |
| State:           | <input type="text" value="Kerala"/>      |
| Pincode:         | <input type="text" value="680567"/>      |

This page says  
All fields are required.

**Student Registration Form**

|                  |  |
|------------------|--|
| Name of Student: | <input type="text" value="abhi"/>        |
| Mobile No:       | <input type="text" value="90614890"/>    |
| Address Line:    | <input type="text" value="1234 street"/> |
| City:            | <input type="text" value="Kollam"/>      |
| State:           | <input type="text" value="Kerala"/>      |
| Pincode:         | <input type="text" value="680567"/>      |

This page says  
Mobile number must be exactly 10 digits.

4. Write a JavaScript Form to accept First Name and Last Name from user. Display user entered information {hint use alert and prompt dialog box}

SOURCE CODE

```
<!DOCTYPE html>
<html>
<head>
<title>First and Last Name Prompt</title>
<script>
    function.getUserName() {
        var firstName = prompt("Enter your First Name:");
        var lastName = prompt("Enter your Last Name:");

        if (!firstName || !lastName) {
            alert("Both First Name and Last Name are required!");
        } else {
            alert("Your name is " + firstName + " " + lastName);
        }
    }
</script>
```

```
</script>
</head>
<body>

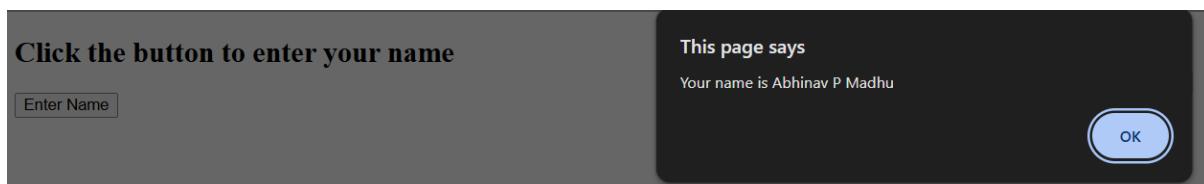
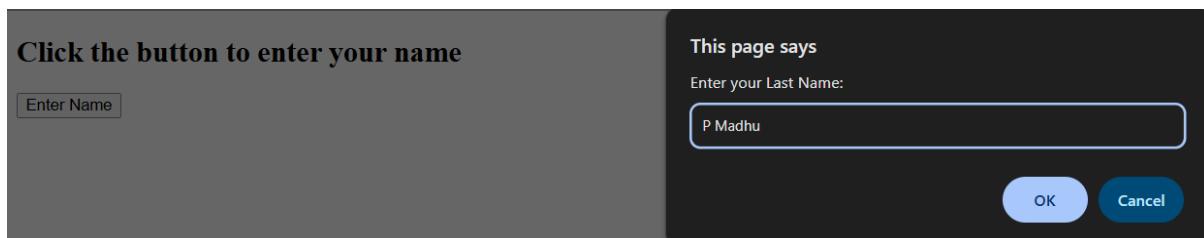
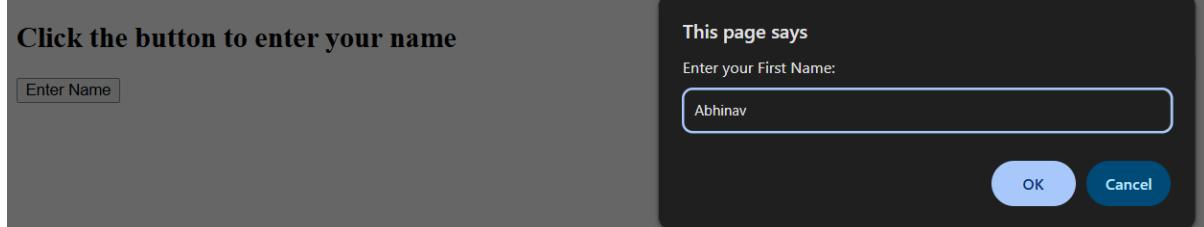
<h2>Click the button to enter your name</h2>
<button onclick="getUserName()">Enter Name</button>

</body>
</html>
```

OUTPUT

---

## Click the button to enter your name

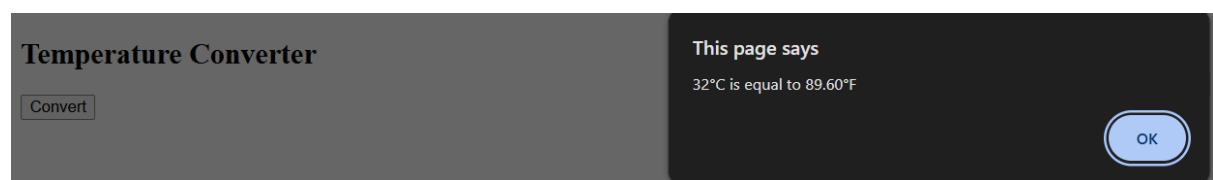
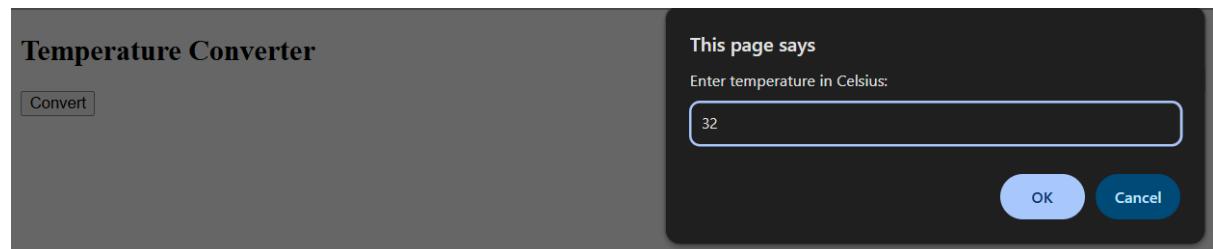


5. Write a JavaScript program which prompts the user to enter temperature in degrees and this is converted to Fahrenheit and displayed.

#### SOURCE CODE

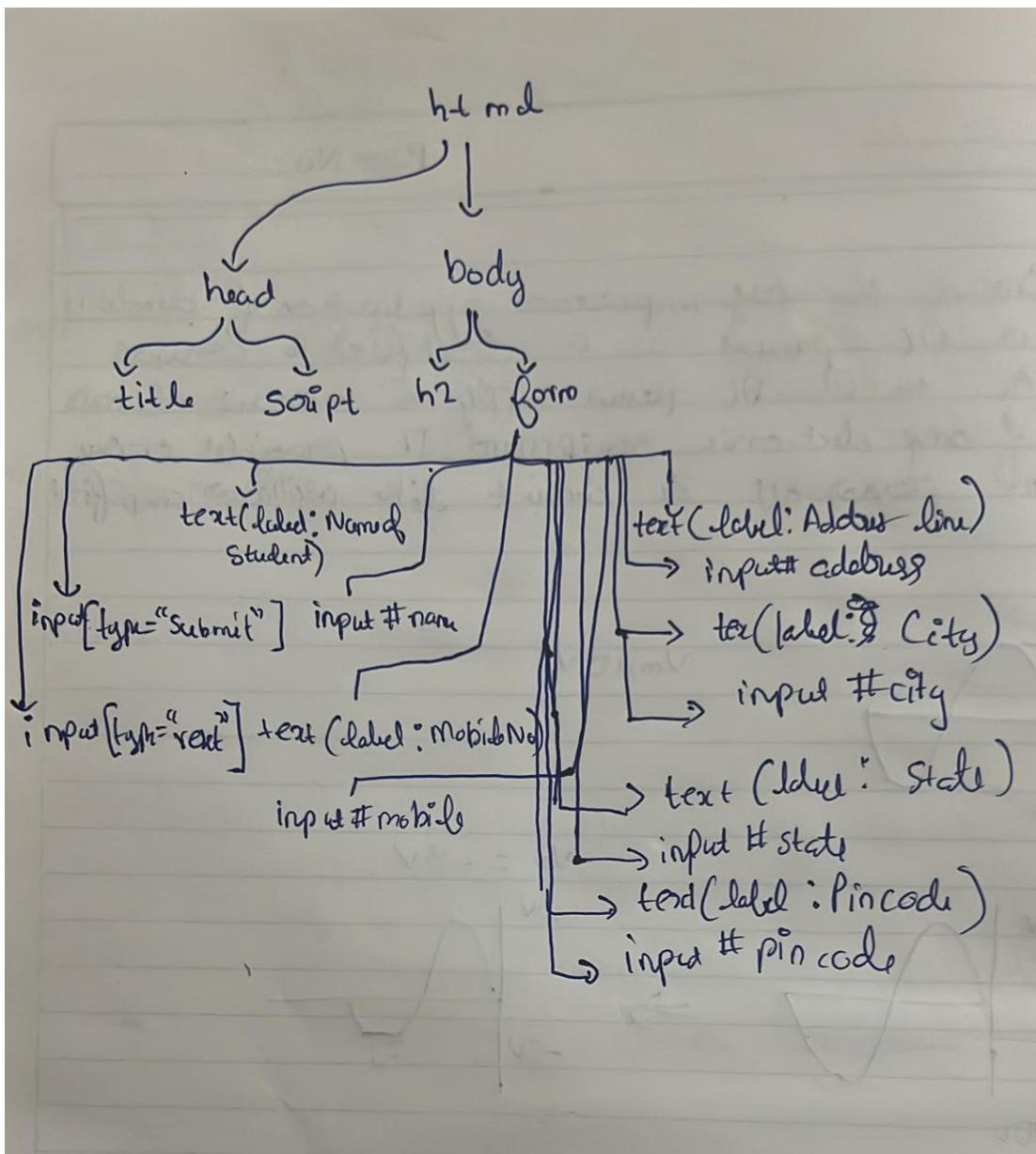
```
<!DOCTYPE html>
<html>
<head>
    <title>Temperature Converter</title>
    <script>
        function convertTemperature() {
            var celsius = prompt("Enter temperature in Celsius:");
            if (celsius === null || celsius.trim() === "") {
                alert("Temperature is required!");
                return;
            }
            celsius = parseFloat(celsius);
            if (isNaN(celsius)) {
                alert("Please enter a valid number.");
                return;
            }
            var fahrenheit = (celsius * 9/5) + 32;
            alert(celsius + "°C is equal to " + fahrenheit + "°F");
        }
    </script>
</head>
<body>
    <h2>Temperature Converter</h2>
    <button onclick="convertTemperature()">Convert</button>
</body>
</html>
```

#### OUTPUT



3. The questions are pertaining to form showed in Question 2

a. Draw the Document Object Model for 2



b. What are the different ways to access the city field? Write the code.

1. By ID

```
var city1 = document.getElementById("city");
```

2. By name (if you add `name="city"` in HTML)

```
var city2 = document.getElementsByName("city")[0];
```

3. Using query selector

```
var city3 = document.querySelector("#city");
```

c. Write JavaScript code when the city is entered, the pin code should come automatically. Show for 3 cities.

```
<!DOCTYPE html>
<html>
<head>
    <title>Student Registration Form</title>
    <script>
        function validateForm() {
            var name = document.getElementById("name").value.trim();
            var mobile = document.getElementById("mobile").value.trim();
            var address = document.getElementById("address").value.trim();
            var city = document.getElementById("city").value.trim();
            var state = document.getElementById("state").value.trim();
            var pincode = document.getElementById("pincode").value.trim();

            if (!name || !mobile || !address || !city || !state || !pincode) {
                alert("All fields are required.");
                return false;
            }

            if (!/^[A-Za-z\s]+$/ .test(name)) {
                alert("Name must contain only alphabets.");
                return false;
            }

            if (!/\d{10}"/ .test(mobile)) {
                alert("Mobile number must be exactly 10 digits.");
                return false;
            }

            if (!/\d{6}"/ .test(pincode)) {
                alert("Pincode must be exactly 6 digits.");
                return false;
            }

            alert("Form submitted successfully!");
            return true;
        }

        function fillPincode() {
            var city = document.getElementById("city").value.trim().toLowerCase();
            var pincodeField = document.getElementById("pincode");

            if (city === "mumbai") pincodeField.value = "400001";
            else if (city === "delhi") pincodeField.value = "110001";
            else if (city === "chennai") pincodeField.value = "600001";
        }
    </script>

```

```

        }
    </script>

</head>
<body>

<h2>Student Registration Form</h2>
<form onsubmit="return validateForm()">
    Name of Student:<br>
    <input type="text" id="name"><br><br>

    Mobile No:<br>
    <input type="text" id="mobile"><br><br>

    Address Line:<br>
    <input type="text" id="address"><br><br>

    City:<br>
    <input type="text" id="city"><br><br>

    State:<br>
    <input type="text" id="state"><br><br>

    Pincode:<br>
    <input type="text" id="pincode"><br><br>

    <input type="submit" value="Submit">
    <input type="reset" value="Reset">
</form>

</body>
</html>

```

## OUTPUT

---

### Student Registration Form

Name of Student:

Mobile No:

Address Line:

City:  
mumbai

State:

Pincode:  
400001

**d. When the form is loaded the cursor should be displayed in Name of student field. (use `onload()`).**

#### SOURCE CODE

```
<!DOCTYPE html>
<html>
<head>
    <title>Student Registration Form</title>
    <script>
        function validateForm() {
            var name = document.getElementById("name").value.trim();
            var mobile = document.getElementById("mobile").value.trim();
            var address = document.getElementById("address").value.trim();
            var city = document.getElementById("city").value.trim();
            var state = document.getElementById("state").value.trim();
            var pincode = document.getElementById("pincode").value.trim();

            if (!name || !mobile || !address || !city || !state || !pincode) {
                alert("All fields are required.");
                return false;
            }

            if (!/^[A-Za-z\s]+$/ .test(name)) {
                alert("Name must contain only alphabets.");
                return false;
            }

            if (!/\d{10}"/ .test(mobile)) {
                alert("Mobile number must be exactly 10 digits.");
                return false;
            }

            if (!/\d{6}"/ .test(pincode)) {
                alert("Pincode must be exactly 6 digits.");
                return false;
            }

            alert("Form submitted successfully!");
            return true;
        }

        function fillPincode() {
            var city = document.getElementById("city").value.trim().toLowerCase();
            var pincodeField = document.getElementById("pincode");

            if (city === "mumbai") pincodeField.value = "400001";
            else if (city === "delhi") pincodeField.value = "110001";
            else if (city === "chennai") pincodeField.value = "600001";
        }
    </script>

```

```
}

function setCursor() {
    document.getElementById("name").focus();
}

</script>

</head>
<body onload="setCursor()">

<h2>Student Registration Form</h2>
<form onsubmit="return validateForm()">
    Name of Student:<br>
    <input type="text" id="name"><br><br>

    Mobile No:<br>
    <input type="text" id="mobile"><br><br>

    Address Line:<br>
    <input type="text" id="address"><br><br>

    City:<br>
    <input type="text" id="city" onblur="fillPincode()"><br><br>

    State:<br>
    <input type="text" id="state"><br><br>

    Pincode:<br>
    <input type="text" id="pincode"><br><br>

    <input type="submit" value="Submit">
    <input type="reset" value="Reset">
</form>

</body>
</html>
```