

HTML LAB



Prepared by:

Name of Student : Mahajan Piyush

Roll No: 150096723035

Batch: 2023-27

Dept. of CSE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



**INSTITUTE OF TECHNOLOGY AND MANAGEMENT
SKILLS UNIVERSITY,
KHARGHAR, NAVI MUMBAI**

CERTIFICATE

This is to certify that Mr. / Ms. Mahajan Piyush Roll No.
150096723035 Semester II of B.Tech Computer Science & Engineering, ITM
Skills University, Kharghar, Navi Mumbai , has completed the term work satisfactorily
in subject HTML for the academic year 2023 - 2024 as prescribed
in the curriculum.

Place: Kharghar

Date: 6/4/24

Subject I/C

HOD

Exp. No	List of Experiment	Date of Submission	Sign																				
1	Design a page having suitable background colour and text colour with title “My First Web Page” using all the attributes of the Font tag.	6/4/24																					
2	Create a HTML document giving details of your [Name, Age], [Address, Phone] and [Register Number, Class] aligned in proper order using alignment attributes of Paragraph tag.	6/4/24																					
3	Create a web page with an appropriate image towards the left hand side of the page, when user clicks on the image another web page should open.	6/4/24																					
4	Create a web page for internal links; when the user clicks on different links on the web page it should go to the appropriate locations/sections in the same page.	6/4/24																					
5	Create a HTML document containing a nested list showing a content page of any book.	6/4/24																					
6	Create a web page, showing an unordered list of names of all the PG Diploma Programmes (Branches) in your institution.	6/4/24																					
7	<div>Create the following table in HTML with following Data for your batch:</div> <table><tr><th>Reg. Number</th><th>Student Name</th><th>Year/Semester</th><th>Date of Admission</th></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>	Reg. Number	Student Name	Year/Semester	Date of Admission																	6/4/24	
Reg. Number	Student Name	Year/Semester	Date of Admission																				
8	Create a web page which divides the page in two equal frames and place the audio and video clips in frame-1 and frame-2 respectively.	6/4/24																					
	<table><tr><th>FRAME-1</th><th>FRAME-2</th></tr><tr><td></td><td></td></tr></table>	FRAME-1	FRAME-2			6/4/24																	
FRAME-1	FRAME-2																						

9	1. Use frames such that page is divided into 3 frames 20% on left to show contents of pages, 60% in center to show body of page, remaining on right to show remarks.	6/4/24	
10	Create an HTML page that contains a selection box with a list of 5 countries, when the user selects a country, its capital should be printed next to the list; Add CSS to customize the properties of the font of the capital (color, bold and font size).	6/4/24	

Name of Student: Mahajan Piyush

Roll Number: 35

Experiment No: 1

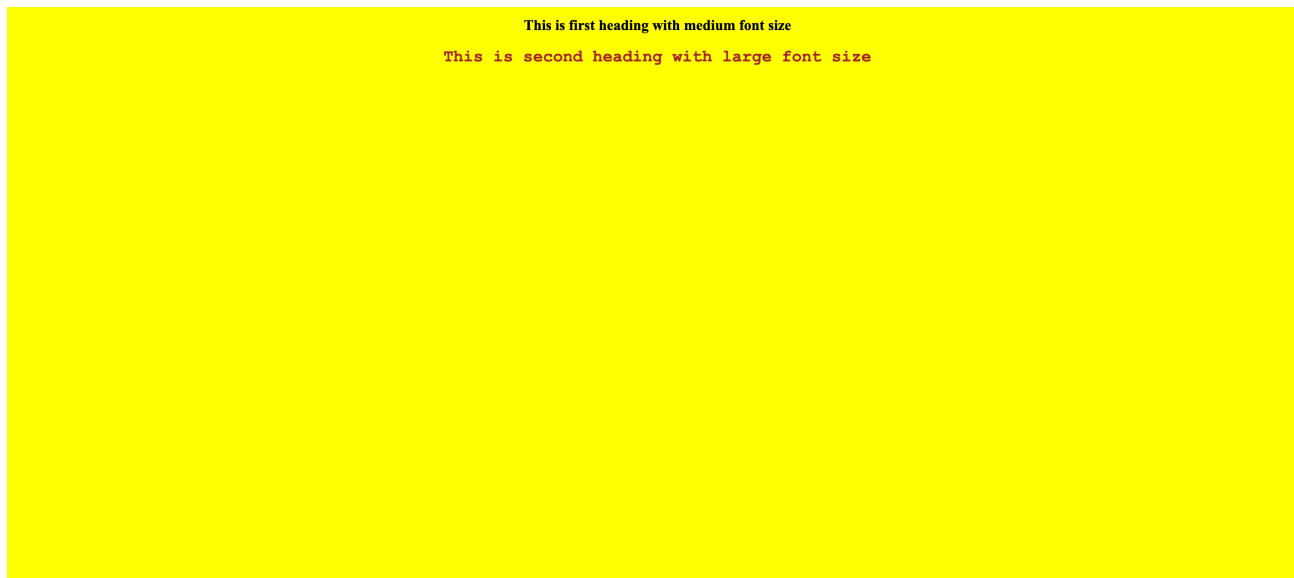
Title: Design a page having suitable background colour and text colour with title “My First Web Page” using all the attributes of the Font tag.

Theory: The tag was used to specify the font family, font size, and color of text. It can be modified by CSS and can be changed for a specific element(inline CSS), a specific page(internal CSS), and for the whole website(external CSS).

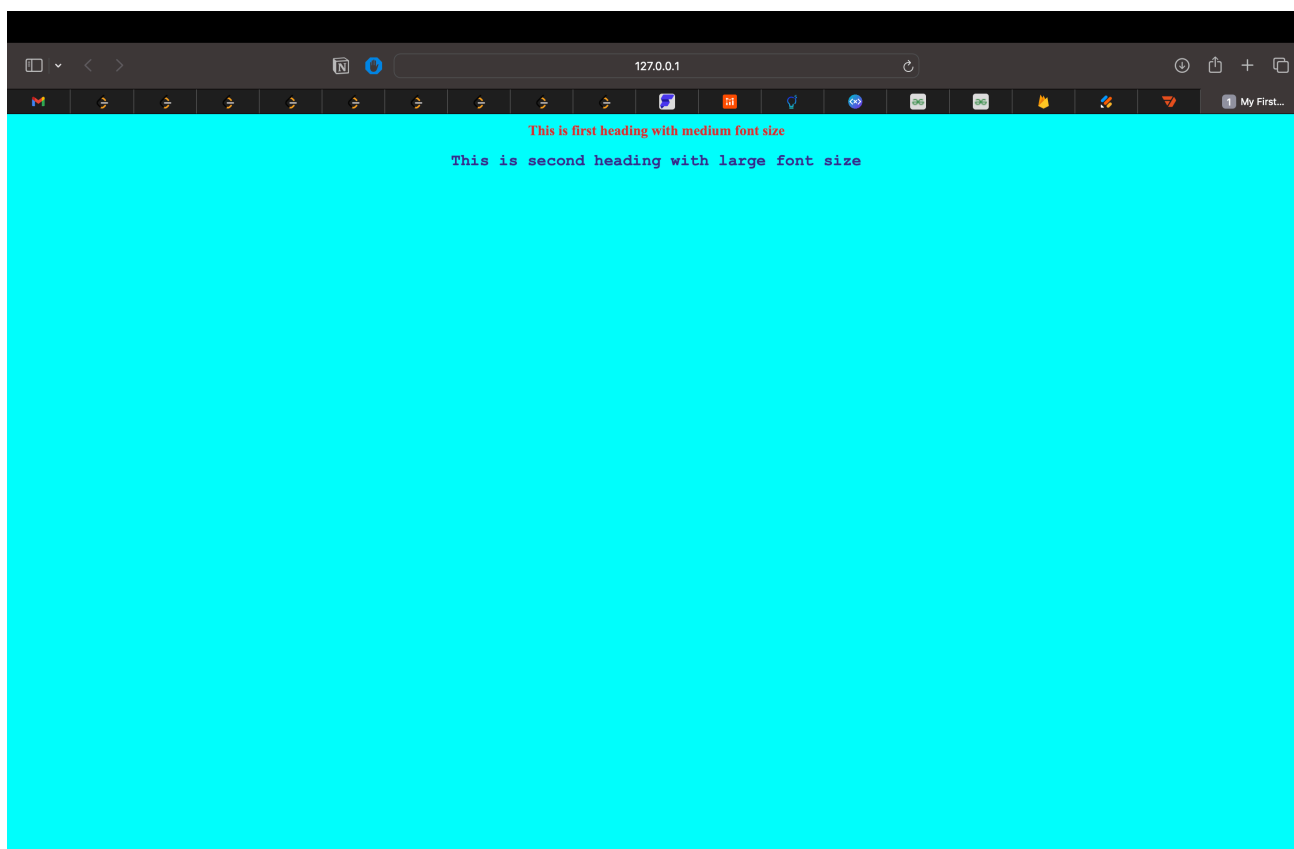
Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <link href="style.css" rel="stylesheet">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>My First Web Page</title>
</head>
<body style="background-color: aqua;" align="center">
  <h1 style="font-family: 'Times New Roman', Times, serif; font-
size: medium; color: black;">This is first heading with medium font
size</h1>
  <h2 style="font-family: 'Courier New', Courier, monospace;
font-size: large; color: brown;">This is second heading with large
font size</h1>
</body>
</html>
```

Output: (screenshot)



Test Case: Any two (screenshot)



Conclusion: Therefore, using tag, we can change the font type, font size and colour of the text in any element of the document.

Name of Student: Lakshya Duhoon

Roll Number: 46

Experiment No: 2

Title: Create a HTML document giving details of your [Name, Age], [Address, Phone] and [Register Number, Class] aligned in proper order using alignment attributes of Paragraph tag.

Theory: <p> tag is used to define a paragraph. Browsers automatically add a single blank line before and after each <p> element. <align> tag is used to align the contents of the element in the document; it can be used to align the content to the left side, right side, and in the centre of the browser screen.

Code:

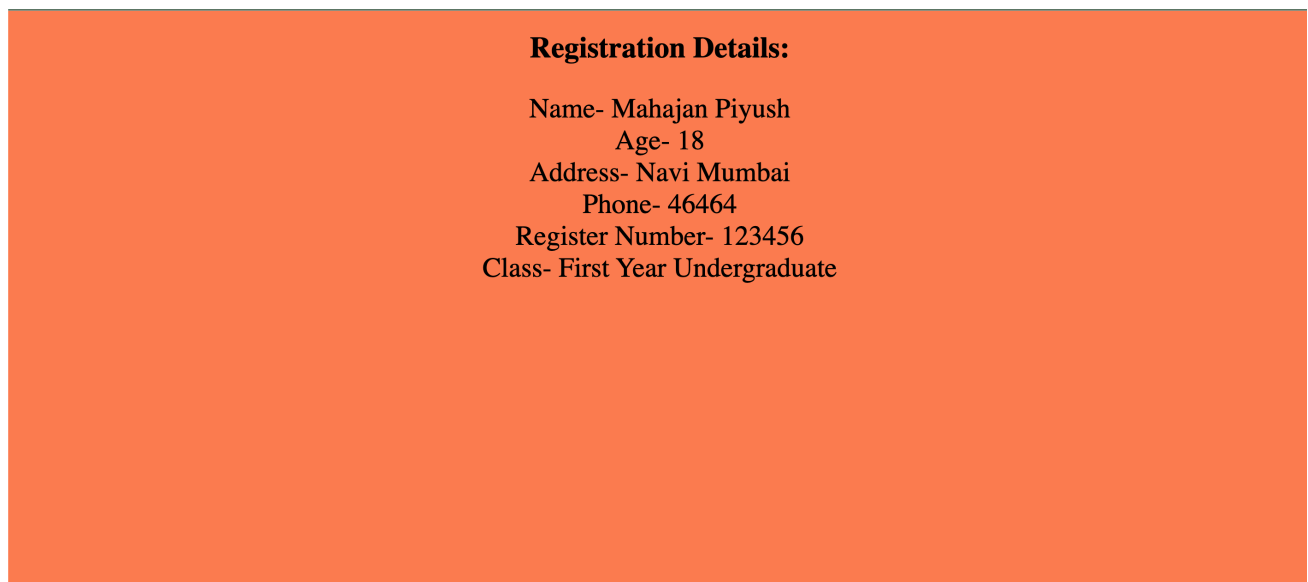
```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
```

```

    <link href="style.css" rel="stylesheet" />
    <meta name="viewport" content="width=device-width, initial-
scale=1.0" />
    <title>Registration Details</title>
  </head>
  <body style="background-color: coral">
    <h1 align="center">Registration Details:</h1>
    <p align="center" style="font-size: 30px">
      Name- Mahajan Piyush<br />Age- 18<br />Address- Navi Mumbai
      <br />Phone- 46464<br />Register Number- 123456<br />Class-
First
      Year Undergraduate
    </p>
  </body>
</html>

```

Output: (screenshot)



Test Case: Any two (screenshot)

Registration Details:

Name- Mahajan Piyush
Age- 18
Address- Navi Mumbai
Phone- 46464
Register Number- 123456
Class- First Year Undergraduate

Registration Details:

Name- Mahajan Piyush
Age- 18
Address- Navi Mumbai
Phone- 46464
Register Number- 123456
Class- First Year Undergraduate

Conclusion: Therefore, using `<align>` tag, we can align the contents of the `<p>` element and various other elements as well in respect to the browser window.

Name of Student: Mahajan Piyush

Roll Number: 35

Experiment No: 3

Title: Create a web page with an appropriate image towards the left hand side of the page, when user clicks on the image another web page should open.

Theory: tag is used to embed an image in an HTML page, it consists of the path of the image and alt description of the image, in case the image doesn't load, the alt is used to describe the image on the website. <a> tag is used to link a web page inside another webpage and consists of the destination link of the webpage to embed.

Code:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <link href="style.css" rel="stylesheet" />
    <meta name="viewport" content="width=device-width, initial-
scale=1.0" />
    <title>Image to another webpage</title>
  </head>
  <body style="background-color: coral">
    <h1>Click on the image to go to another webpage</h1>
    <br />
    <a href="/html/1firstwebpage.html"
      ><img src="data:image/
png;base64,iVBORw0KGgoAAAANSUhEUgAAA0EAAADhCAMAAAAJbSJJIAAABI1BMVEXY
T1b////8/////v/5/////v7XUFb//P////37//
zWQURyTVTdTVLbTlbWUFbVSljyzs3TR0neTFfaW2j37enUUlP0///
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```

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YFQZ7ef3+tu7a1w/
6fu2HZvtRRMCMJd5zldb0wUfc0m7MgDH1TI1zSgyabn5Z+HKCjQ22Lbtte3Gh2J+VGM
eha3Ci7wVTuWnSbATJKYZ/nWn49uI9Bca7xkQRluhrJfLPjt5KAwNA9JHS1/
Y0qyT95PDKt4Hry7vHjluM+/xaEfBtd3gBned/
I74opyIK8V86UHNr7DWPvaPpLRmerckjxhDCY3LT5/CGW7cY7uCYAD79lw/
uRM5YzU90wHXxt0LW3KzmG4PFDWYMMqDTpBIIdRVp4uxu60Q9z3BEEdL76DEmqQYPLRxx
d5aHW0mtqS/
v4B2fTka8cnfH1QxZqidh74CEg7Fqaik5mLgXG23wEIh7az1AtMqLyu5QhGsesVV52X
TPeYC3gbEkG510ncAP00usdYj21onB5Ek26dZi1w4B9YT0bIt8NntbK9vPLy+wbSUK/
zmTIGuVShk+2t3kK/
gBzY+2dNvWNwE4S69Xnr2kJAZzT+La9BhdmF5E6LTsRsF36SKuBj fFY7x/GtUL39H1/
u/
2JQMZw0KnpzZahviuwri8JD59DSyH4uEjBESXs1h+NZfDQNSyKRSBV9FqJeXuPo2nEk

x1vNyda2semaZXCzi/
DNys9J0maH50YnfS1btLDdB4KxzPnoZ62M0j4zTMxjL9o6bor0yp+bpAmqJ0TDRq2ca
f0aMpWQZx25kqlcJCvN47GvRwBN2ZTukpzo07Mx0Buoff4I9RwayZDcoy5xcLnq8+zp
bq5yYUosf6n1H2pqR8TJT7y7GE5arD1YULxKYX9nefjHuLdGCYFkQaeU764x+BFn0RbH
sd+YMU9oVQEF0e2y5boT+SWc1lJ67vMU/0Kvwi2/
fDm7JDS7RkI2uRFR0M80tctLSo1vJ4xWszu550DsttJbZtzT+G5DoVBdoKz2TayN7rH
xqjQjp8oxTuoZap11hx8Z+03rh1bQmFyx4N8WkxWS/
PW00aeiNA2zuY+vDEbaoDepMUrS7JUtkCGfudqS5UbsGIlv3yC09C1WdmZT7Thwp2qj
hlk+ZxUL5lz6dMGq070D8AceZPrswDSIY9JydNpUx7LGWaMP9tMnoFkPHZGfTzeFqqh
fpu7VliMzWo87vL8EK3i0/
lznicijGX6y1g0VfKBSAH2t9eP0BS1VBQ+LcvSttf+GhKaokD63W+tsqz4CRop1fh7ng
eMqdkZfGv2od7vU8MpQN+wwWKjvFD8Pzw1d+0tzY2NhNT/
rB+7Zxd7+4fyRofLg7zYcaP2q/
430NpVPL1mVvukn8l5KnpFuBRs95iCntrbHVriCIaSiZNGn9VUXgLRPCUXx3r7GbRyq
b0ajefPCRB7RXwzzWkzAavV9LATv3/eqgBD0fHTgCKrQdP+cxB7cX6k0+nYRh/
7Z9A90wwl0JzNYt/
cFrCrI9ENLeeCbG2sHycLjZraBJERymy0azHH11H0zD0VIVfi6iMGx0H2xi6mFhMtCS
9fAlldlcHA8zzMX6GE9NpKD0wBiWn3Y/fd+FdiMiIyzyCE44CqbLG/Y0nhzx8p/
k4Resto1yuu2Y0QbgB2JjNS7eboHw/
iv506zvTaE5WxcDIg3qWCGVZarHpkHa+6lqaUrhkf7Z8Y+5x520KhTWJdW1vlsbwRXc
ZNK4iEWU/5mY1AFT/pY4jZqWpuyi99gjjgCKH/
KoJt4sCniJ4x2eLHfAxF4yQH7rFDIqCtfx5xySkeljnWy7T0kWr+Ui9ctz1Zq91u8Ko
eN1D3/xuXQTXgDy3gUSNh10iImCpUqnU+GZRS06xpAkj67GJQETjSE/
GrTQeFPL5RmCsz/
0fIMAc3zlu7yFh9pKC4iFtK5nrUA6ZNq2TVgWxTbm40h0urevfr9FleiQ5x9nYQ3er1
jweRZV0M9eezzrIIWkmVu/wsFdNmIR0nB/
EkHE0yyf3FAtLP1G9asxn303wRWEYuuxLfrbD+x44FkrGbDcuYvuj1MkprKy3/
TjSIW0au6Pu5hEUP/I8Kg7/1ZCFVmztVLLE9HTP/
Bhinh8+sqeCHCZvGzuap6p8a6AnKMV0EuuLnW30z4JphIT0+h+KpdHBTnG4TQPWTWj+
U86/fyqwTVfpkcf/
tP+BQYYMGTJkyJAhQ4YMGTJkyJAhQ4YMGTJkyJAhQ4YMGTJkyJAhQ4YMGTJkyJAhQ4Y
MGTl8j+H/AJZkfpLpxe5TAAAAAElFTkSuQmCC" alt="tribes india banner"
/>
</body>
</html>

Output: (screenshot)

Click on the image to go to another webpage



Test Case: Any two (screenshot)

After clicking on the image-

Click on the image to go to another webpage



Conclusion: Therefore, using `` and `<a>` tags, we can embed an image in the webpage, which when clicked, leads to another webpage.

Name of Student: Mahajan Piyush

Roll Number: 35

Experiment No: 4

Title: Create a web page for internal links; when the user clicks on different links on the web page it should go to the appropriate locations/sections in the same page.

Theory: Using id to tag the different parts of the webpage and using <a> tag with href with #id to go to various locations or sections in the same webpage.

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>Resume</title>
  <script src="https://unpkg.com/feather-icons"></script>
  <link rel="stylesheet" href="style.css">
</head>

<body>
  <div class="container">
    <div class="profile">
      <div class="profile_container">
        <div class="profile_profileImg">
          
        </div>
        <div>
          <h1 class="profile_name">
            <span class="profile_name_firstName">Mahajan</span>
            <span class="profile_name_lastName">Piyush</span>
          </h1>
          <p class="profile_title">Currently Pursuing B.Tech CSE at
ITM Skills University, Navi Mumbai.</p>
          <p class="description profile_description">
```


Hey, I'm Mahajan Piyush, currently navigating the realms of B.Tech in Computer Science at ITM Skill University in Kharghar, Navi Mumbai. A tech enthusiast with a flair for creativity, coding, and occasional gaming escapades. Proud alumnus of Kendriya Vidyalaya, Sector 4, RK Puram, New Delhi. Passionate about the ever-evolving tech landscape, I've dived into numerous college projects, constantly staying on the pulse of the latest trends. Excited to contribute and explore new opportunities in this dynamic tech universe!

</p>

</div>

</div>

</div>

<div class="group-1">

<div class="skills">

<h3 class="title">Expertise</h3>

<ul class="skills_list description">

C++ Language

C Language

Python Language

Java Language

HTML and css

</div>

<div class="ref">

<h3 class="title">Reference</h3>

<div class="ref_item">

<h4 class="ref_name">Saikiran Sondarkar </h4>

<p class="description">Founder & CEO- LetsUpgrade.in (India's largest Tech Learning Community)</p>

</div>

<div class="ref_item">

<h4 class="ref_name">Sumit Shinde</h4>

<p class="description"> Professor at ITM Skills University, Navi Mumbai</p>

</div>

</div>

<div class="edu">

<h3 class="title">Education</h3>

<div class="edu_item">

<p class="item_preTitle">2021</p>

<h4 class="item_title">SSC </h4>

<p class="item_subtitle">

Kendriya Vidyalaya Sector 4, RK Puram, New Delhi

</p>

```
</div>
<div class="edu_item">
  <p class="item_preTitle">2023</p>
  <h4 class="item_title">HSC(Science)</h4>
  <p class="item_subtitle">
    Kendriya Vidhalaya Sector 4, RK Puram, New Delhi
  </p>
</div>
</div>
```

```
<div class="certification">
  <h3 class="title">certification</h3>
  <div class="certification_item">
    <p class="item_preTitle">2023</p>
    <h4 class="item_title">JAVA Workshop</h4>
    <p class="description">
      Completed a Java course at IIT Bombay during Techfest,
      earning certification for successful participation.
    </p>
  </div>
</div>
</div>
<div class="group-2">
  <div class="exp">
    <h3 class="title">Experience</h3>
    <div class="exp_item">
      <p class="item_preTitle"></p>
      <h4 class="item_title">No Codes</h4>
      <p class="item_subtitle">Software used:-
        Wix,Webflow,Dora,Canva,Appsheet and Scratch.</p>
      <p class="description">
        I'm a skilled no-code developer proficient in Canva,
        Wix, Webflow, AppSheet, and Scratch. Check out my GitHub for a
        glimpse of diverse projects showcasing my expertise. Excited about
        the opportunity to contribute to your team.
      </p>
    </div>
    <div class="exp_item">
      <p class="item_preTitle"></p>
      <h4 class="item_title">Codes</h4>
      <p class="item_subtitle">IDLE's used:- Visual Code(For
        every other languages), Python IDLE(for Python) and BlueJ(For
        Java).</p>
      <p class="description">
        I'm skilled in C++, C, Python, and Java, using
        different logics for my codes. I've worked on various projects, and
        you can check them out on my GitHub. Excited about the chance to
        contribute to your team!
      </p>
    </div>
  </div>
</div>
```

```

        </div>
    </div>
    <div class="awards">
        <h3 class="title">Awards</h3>
        <div class="awards_item">
            <p class="item_preTitle">2023</p>
            <h4 class="item_title">No-Code Appsheet Competition !</h4>
            <p class="description">
                I secured a top 6 position in the No-Code AppSheet competition. I showcased a unique app with its entire backend process, earning recognition for my innovative approach. Excited to bring this winning mindset to your team!
            </p>
        </div>
        <div class="awards_item">
            <p class="item_preTitle">2024</p>
            <h4 class="item_title">Presentation Skills Competition!</h4>
            <p class="description">
                I clinched the 2nd position in a presentation competition, winning a 2000 rupees worth Amazon gift card. Thrilled to bring my communication and presentation skills to your team!
            </p>
        </div>
    </div>

```

```

<div class="interest">
    <h3 class="title">Interest</h3>
    <div class="interest_items">
        <div class="interest_item">
            <i data-feather="music"></i>
            <span>Music</span>
        </div>
        <div class="interest_item">
            <i data-feather="book"></i>
            <span>Books</span>
        </div>
        <div class="interest_item">
            <i data-feather="map"></i>
            <span>Travel</span>
        </div>
    </div>

```

```

    </div>
</div>
<hr>
<div class="group-3">
    <div class="contact">

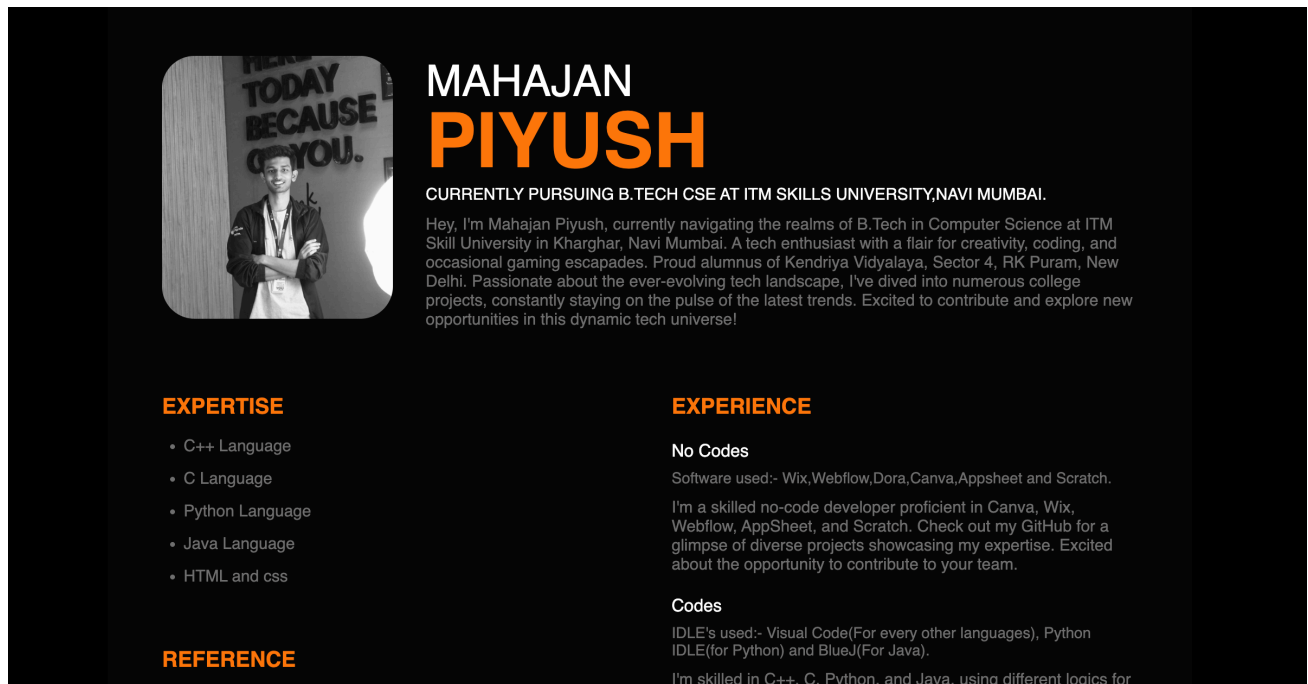
```

```
<h3 class="title">Contact</h3>
<div class="contact_info">
  <p class="description">
    Navi Mumbai, Maharashtra
  </p>
  <p class="description">
    +91 7303166639
  </p>
  <p class="description">
    mahajanpi2105@gmail.com
  </p>
</div>
</div>
<div class="social">
  <h3 class="title">Socials</h3>
  <div class="social_items">
    <a href="https://github.com/M-Piyush-21" target="_b"
class="social_item">
      <i data-feather="github"></i>
      <span>/M-Piyush-21</span>
    </a>
    <a href="https://twitter.com/MPiyush464016"
target="_blank" class="social_item">
      <i data-feather="twitter"></i>
      <span>@MPiyush464016</span>
    </a>
    <a href="https://www.linkedin.com/in/piyush-
mahajan-51274a277/" target="_blank" class="social_item">
      <i data-feather="linkedin"></i>
      <span>/Piyush Mahajan</span>
    </a>
  </div>
</div>
</div>
<script>
  feather.replace()
</script>
</body>

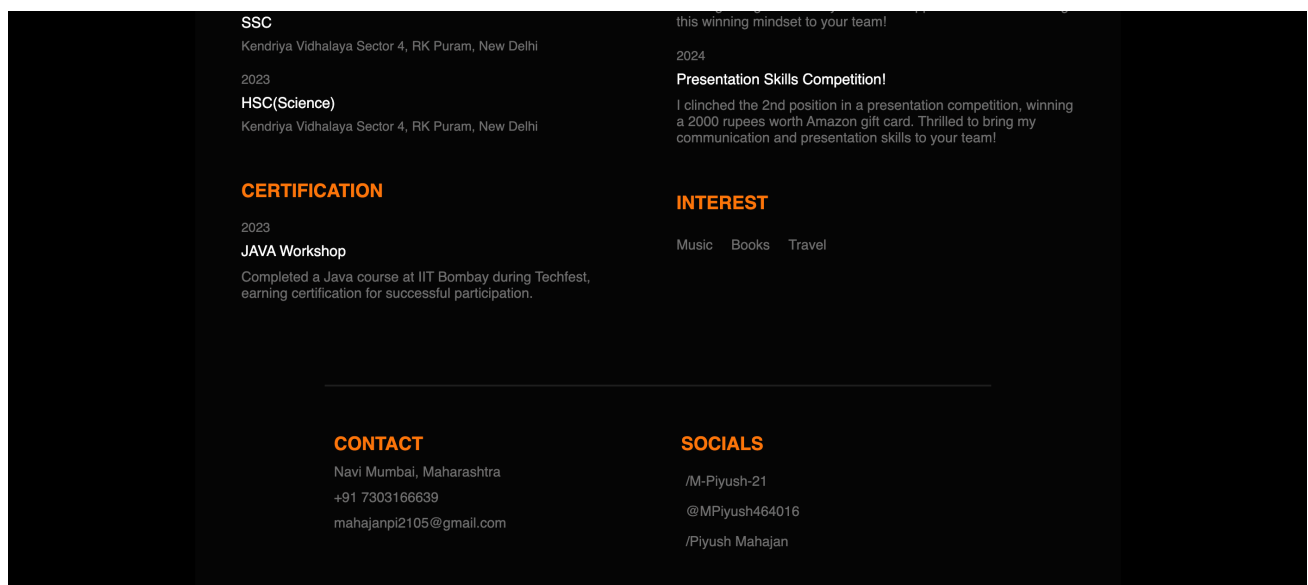
</html>
```

Output: (screenshot)

Test Case: Any two (screenshot)



When about me is clicked-



When professional skills is clicked-

Conclusion: Therefore, using id's for different parts of the website and using <a> tag with #id in href to go to different parts of the same webpage.

Name of Student: Mahajan Piyush

Roll Number: 35

Experiment No: 5

Title: Create a HTML document containing a nested list showing a content page of any book.

Theory: There are two types of lists in HTML- unordered and ordered lists, represented by and tags respectively. A nested list consists of list inside another list.

Code:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-
scale=1.0" />
```

```

<title>The Art of War – Content Page</title>
</head>
<body style="background-color: aqua">
  <h1>The Art of War – Content Page</h1>
  <ul>
    <li>Chapter 1: Laying Plans</li>
    <li>Chapter 2: Waging War</li>
    <li>
      Chapter 3: Attack by Stratagem
      <ul>
        <li>Section 1: The Five Essentials for Victory</li>
        <li>Section 2: Adaptability</li>
        <li>Section 3: Engaging the Force</li>
      </ul>
    </li>
    <li>
      Chapter 4: Tactical Dispositions
      <ul>
        <li>Section 1: Energy</li>
        <li>Section 2: Weak Points and Strong</li>
        <li>Section 3: Maneuvering</li>
      </ul>
    </li>
    <li>Chapter 5: Forces</li>
    <li>Chapter 6: Weaknesses and Strengths</li>
    <li>Chapter 7: Maneuvering</li>
    <li>Chapter 8: Variation in Tactics</li>
    <li>Chapter 9: The Army on the March</li>
    <li>Chapter 10: Terrain</li>
    <li>Chapter 11: The Nine Situations</li>
    <li>Chapter 12: The Attack by Fire</li>
    <li>Chapter 13: Espionage</li>
  </ul>
</body>
</html>

```

Output: (screenshot)

The Art of War - Content Page

- Chapter 1: Laying Plans
- Chapter 2: Waging War
- Chapter 3: Attack by Stratagem
 - Section 1: The Five Essentials for Victory
 - Section 2: Adaptability
 - Section 3: Engaging the Force
- Chapter 4: Tactical Dispositions
 - Section 1: Energy
 - Section 2: Weak Points and Strong
 - Section 3: Maneuvering
- Chapter 5: Forces
- Chapter 6: Weaknesses and Strengths
- Chapter 7: Maneuvering
- Chapter 8: Variation in Tactics
- Chapter 9: The Army on the March
- Chapter 10: Terrain
- Chapter 11: The Nine Situations
- Chapter 12: The Attack by Fire
- Chapter 13: Espionage

Conclusion: Therefore, using `` or `` tags, we can create a nested list.

Name of Student: Mahajan Piyush

Roll Number: 35

Experiment No: 6

Title: Create a web page, showing an unordered list of names of all the PG Diploma Programmes (Branches) in your institution.

Theory: An unordered list consists of elements which are represented by squares, discs, triangles, etc.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>PG Diploma Programmes</title>
  <style>
    .container {
      text-align: center;
    }
    .xyz {
      display: inline-block;
      text-align: left;
    }
  
```



```

        body {
            background-color: aqua;
        }
        h1 {
            text-align: center;
        }
        li {
            font-size: 20px;
        }
    </style>
</head>
<body>
    <h1>PG Diploma Programmes in ITM Skills University: </h1>
    <div class="container">
        <ul class="xyz">
            <li>PG Diploma in Computer Science</li>
            <li>PG Diploma in Electronics Engineering</li>
            <li>PG Diploma in Mechanical Engineering</li>
            <li>PG Diploma in Civil Engineering</li>
            <li>PG Diploma in Chemical Engineering</li>
            <li>PG Diploma in Electrical Engineering</li>
            <li>PG Diploma in Information Technology</li>
        </ul>
    </div>
</body>
</html>

```

Output: (screenshot)

PG Diploma Programmes in ITM Skills University:

- PG Diploma in Computer Science
- PG Diploma in Electronics Engineering
- PG Diploma in Mechanical Engineering
- PG Diploma in Civil Engineering
- PG Diploma in Chemical Engineering
- PG Diploma in Electrical Engineering
- PG Diploma in Information Technology

Conclusion: Therefore, using unordered list `` tag, we can display a list of elements.

Name of Student: Mahajan Piyush

Roll Number: 35

Experiment No: 7

Title: Create the following table in HTML with following Data for your batch:

Theory: Table in HTML is defined using `<table>` tag. It consists of `<tr>` - for table row, `<th>` - for table headings(bold and centred by default), `<td>` - for table cell.

Code:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-
scale=1.0" />
    <title>Batch Details</title>
    <style>
      table {
        width: 100%;
        border-collapse: collapse;
      }
      th,
      td {
        border: 1px solid black;
        padding: 15px;
        text-align: left;
      }
    </style>
  </head>
  <body>
    <table>
      <tr>
        <th>Sl. No.</th>
        <th>Name</th>
        <th>Roll No.</th>
        <th>Batch</th>
      </tr>
      <tr>
        <td>1</td>
        <td>Piyush Mahajan</td>
        <td>35</td>
        <td>Batch A</td>
      </tr>
      <tr>
        <td>2</td>
        <td>Rishabh Kumar</td>
        <td>36</td>
        <td>Batch B</td>
      </tr>
      <tr>
        <td>3</td>
        <td>Adarsh Singh</td>
        <td>37</td>
        <td>Batch C</td>
      </tr>
      <tr>
        <td>4</td>
        <td>Ananya Sharma</td>
        <td>38</td>
        <td>Batch D</td>
      </tr>
      <tr>
        <td>5</td>
        <td>Arjun Singh</td>
        <td>39</td>
        <td>Batch E</td>
      </tr>
    </table>
  </body>
</html>
```

```
th {
  background-color: #565c56;
  color: rgb(5, 4, 4);
}
tr:nth-child(odd) {
  background-color: #c9d1d1;
}
</style>
</head>
<body>
<table>
  <caption>
    <h1>Batch Details</h1>
  </caption>
  <tr>
    <th>Reg. Number</th>
    <th>Student Name</th>
    <th>Year/Semester</th>
    <th>Date of Admission</th>
  </tr>
  <tr>
    <td>1</td>
    <td>John Doe</td>
    <td>4th Year</td>
    <td>01/01/2020</td>
  </tr>
  <tr>
    <td>2</td>
    <td>Jane Smith</td>
    <td>2nd Year</td>
    <td>15/08/2022</td>
  </tr>
  <tr>
    <td>3</td>
    <td>Lakshya Duhoon</td>
    <td>1st Year</td>
    <td>1/08/2023</td>
  </tr>
</table>
</body>
</html>
```

Output: (screenshot)

Batch Details

Reg. Number	Student Name	Year/Semester	Date of Admission
1	John Doe	4th Year	01/01/2020
2	Jane Smith	2nd Year	15/08/2022
3	Lakshya Duhoon	1st Year	1/08/2023

Conclusion: Therefore, we can implement a linked list by using class or structure and allocate heap memory for the node by using new operator or malloc function. We can deallocate memory for the node by using free function or delete operator.

Name of Student: Mahajan Piyush

Roll Number: 35

Experiment No: 8

Title: Create a web page which divides the page in two equal frames and place the audio and video clips in frame-1 and frame-2 respectively

Theory: <frame> tag is used to define a particular window(frame) within a <frameset> .

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Two CLips</title>
</head>
<frameset cols="50%, 50%">
  <frame src="/ex1.html" name="frame1">
  <frame src="/ex3.html" name="frame2">
</frameset>
</html>
```

Output: (screenshot)



Conclusion: Therefore, using `<frame>` tag, we can divide the webpage in sections and one section will have an audio track and other one will have a video track.

Name of Student: Mahajan Piyush

Roll Number: 35

Experiment No: 9

Title: Use frames such that page is divided into 3 frames 20% on left to show contents of pages, 60% in centre to show body of page, remaining on right to show remarks.

Theory: <frame> tag is used to define a particular window(frame) within a <frameset> .

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Frame Layout</title>
</head>
<frameset cols="20%, 60%, *">
  <frame src="ex4/index.html" name="contents">
  <frame src="ex2.html" name="body">
  <frame src="ex8.html" name="remarks">
</frameset>
</html>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Body Page</title>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-
scale=1" />
```

```
<link href="style.css" rel="stylesheet" />
</head>
<body style="background-color: rgb(140, 146, 91); text-align:
center">
<h1>The Art Of War by Sun Tzu – Page 12</h1>
<h2>Chapter 7 – Maneuvering</h2>
<p>
    In all kinds of warfare, the direct approach is used for
attack, but the
    oblique is what achieves victory. A general who understands
the use of the
    oblique has a source of tactics as inexhaustible as Heaven
and Earth,
    which, like the Rivers and the Oceans, will never run dry.
Like the Sun
    and Moon, they diminish and then replenish; they constantly
renew
    themselves like the cycle of the Four Seasons. There are only
five basic
    notes in music, [12] but their variations are infinite. There
are only five
    primary colours, [13] but when blended, their shades and hues
are limitless.
    There are only five principal tastes, [14] but their
combinations produce
    more flavours than can ever be tasted. In military strategy,
there is only
    the direct and the oblique, but between them they offer an
inexhaustible
    range of tactics. The direct and the oblique lead naturally
one into the
    other, like an ever-turning wheel, so who can ever exhaust
their resource?
    The surge of rolling flood-water washes away boulders: this
is called
    momentum. The swoop of a falcon strikes and kills its prey:
this is called
    timing. Thus for a skilled warrior, his momentum must be
irresistible and
    his timing precise. Momentum is the tension in a crossbow
arm; timing is
    the pulling of the trigger.
</p>
</body>
</html>
```

```
<!DOCTYPE html>
```





```

<html lang="en">
  <head>
    <title>Remarks Page</title>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-
scale=1" />
    <link href="css/style.css" rel="stylesheet" />
  </head>
  <body style="background-color: greenyellow; text-align: center">
    <h1>The Art Of War by Sun Tzu</h1>
    <h2>Remarks for Chapter 7 Maneuvering</h2>
    <p>
      12 – Ancient Chinese music worked with a pentatonic scale.<br
/>
      13 – Red, blue, yellow, black and white.<br />
      14 – Sweet, salty, sour; bitter and savouriness – the last is
now known as
      "umami".
    </p>
  </body>
</html>

```

Output: (screenshot)

 <p>MAHAJAN PIYUSH CURRENTLY PURSUING B.TECH CSE AT ITM SKILLS UNIVERSITY, NAVI MUMBAI.</p> <p>Hey, I'm Mahajan Piyush, currently navigating the realms of B.Tech in Computer Science at ITM Skill University in Kharghar, Navi Mumbai. A tech enthusiast with a flair for creativity, coding, and occasional gaming escapades. Proud alumnus of Kendriya Vidyalaya, Sector 4, R.K Puram, New Delhi. Passionate about the ever-evolving tech</p>	<p>Registration Details:</p> <p>Name- Mahajan Piyush Age- 18 Address- Navi Mumbai Phone- 46464 Register Number- 123456 Class- First Year Undergraduate</p>	<p>This is first heading with medium font size</p> <p>This is second heading with large font size</p>	<p>Click on the image to go to another webpage</p> 
---	--	--	--

Conclusion: Therefore, using <frame> tag, we can divide the webpage in sections and one section will have contents page, other will have content of a page and another one will have remarks of the page.

Name of Student: Mahajan Piyush

Roll Number: 35

Experiment No: 10

Title: Create an HTML page that contains a selection box with a list of 5 countries, when the user selects a country, its capital should be printed next to the list; Add CSS to customize the properties of the font of the capital (color, bold and font size).

Theory: `<input type="radio">` is used for choosing a single option from multiple choice. `` tag is used to mark up some part of a text from the document. `<label>` tag is used to define a label for several input types(usually in a form).

Code:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Country and Capital</title>
    <style>
      body {
        background-color: aqua;
      }
      .country-label {
        display: inline-block;
        margin-right: 10px;
      }
    </style>
  </head>
  <body>
    <table>
      <tr>
        <th>Country</th>
        <th>Capital</th>
      </tr>
      <tr>
        <td>USA</td>
        <td>Washington, D.C.</td>
      </tr>
      <tr>
        <td>Canada</td>
        <td>Ottawa</td>
      </tr>
      <tr>
        <td>Mexico</td>
        <td>Mexico City</td>
      </tr>
    </table>
  </body>
</html>
```

```
}
```

```
.capital {  
  font-size: 20px;  
  color: blue;  
  font-weight: bold;  
}
```

```
input[type="radio"] {  
  display: none;  
}
```

```
input[type="radio"] + label:before {  
  content: "";  
  display: inline-block;  
  width: 20px;  
  height: 20px;  
  border: 1px solid #ccc;  
  vertical-align: middle;  
}
```

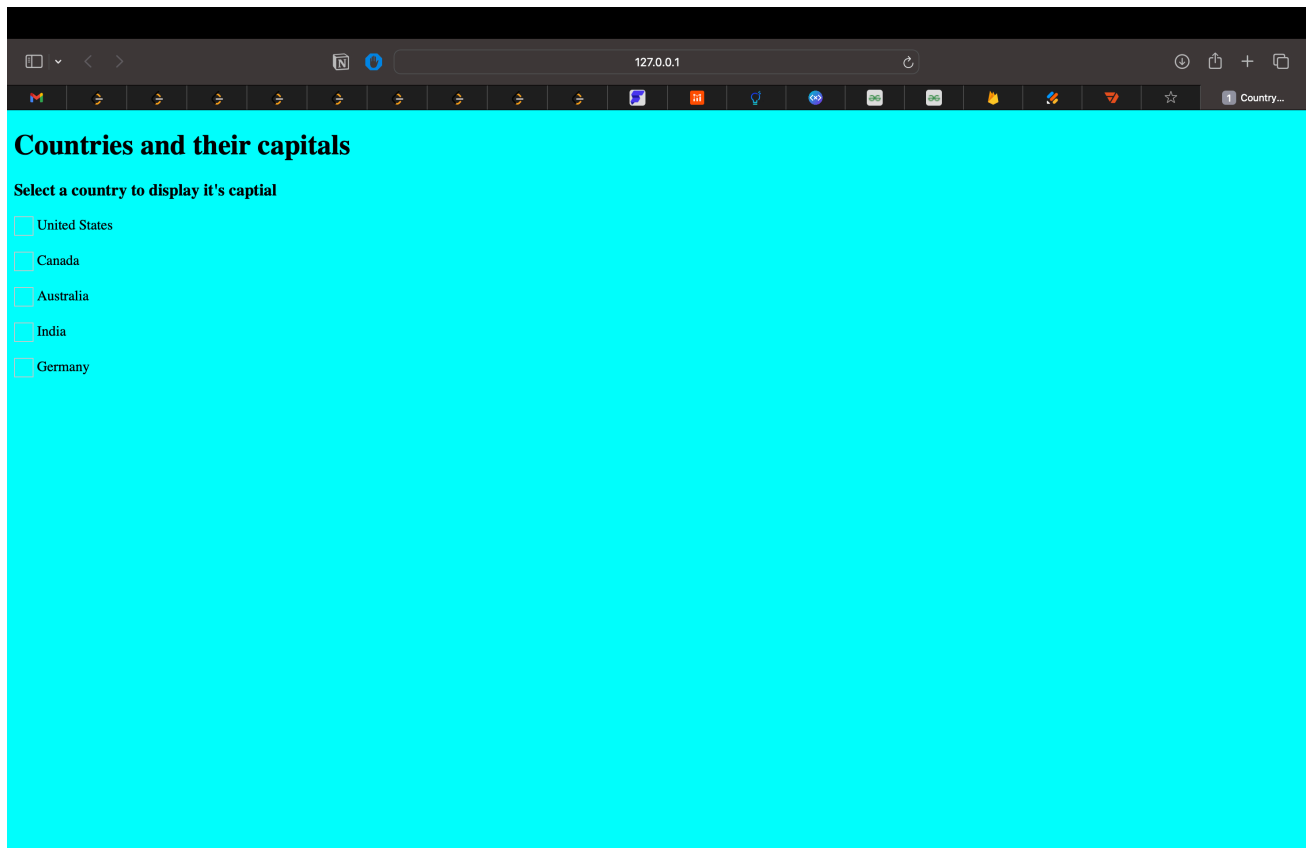
```
input[type="radio"]:checked + label:before {  
  content: "✓";  
  font-size: 18px;  
  text-align: center;  
  line-height: 20px;  
}
```

```
input[type="radio"] + label .capital {  
  display: none;  
}
```

```
input[type="radio"]:checked + label .capital {  
  display: inline-block;  
}  
span {  
  margin-left: 50px;  
}  
</style>  
</head>  
<body>  
  <h1>Countries and their capitals</h1>  
  <h3>Select a country to display it's capital</h3>  
  <div>  
    <input type="radio" name="country" id="USA" value="USA" />  
    <label for="USA" class="country-label">  
      United States  
      <span class="capital">Washington, D.C.</span>  
    </label>
```

```
</div>
<br />
<div>
  <input type="radio" name="country" id="Canada" value="Canada"
/>
  <label for="Canada" class="country-label">
    Canada
    <span class="capital">Ottawa</span>
  </label>
</div>
<br />
<div>
  <input type="radio" name="country" id="Australia"
value="Australia" />
  <label for="Australia" class="country-label">
    Australia
    <span class="capital">Canberra</span>
  </label>
</div>
<br />
<div>
  <input type="radio" name="country" id="India" value="India" /
>
  <label for="India" class="country-label">
    India
    <span class="capital">New Delhi</span>
  </label>
</div>
<br />
<div>
  <input type="radio" name="country" id="Germany"
value="Germany" />
  <label for="Germany" class="country-label">
    Germany
    <span class="capital">Berlin</span>
  </label>
</div>
</body>
</html>
```

Output: (screenshot)



Conclusion: Therefore, using `<input type="radio">` buttons, `<label>` tag and `` tags, we can select a country and show it's capital.