AMRITA VISHWA VIDYAPEETHAM
DEEMED TO BE UNIVERSITY

USER INTERFACE DESIGN

23CSE113

LAB MANUAL

SUBMITTED BY	
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ROLL NO	AV.SC.U4CSE25129
YEAR/SEM/SECTION	1ST YEAR/ SEM-2/CSE-B
CREDITS	03

SUBMITTED TO	DR. RAJ KUMAR BATCHU
DESIGNATION	ASST.PROFFESSOR(SL Grade)
DEPARTMENT	SCHOOL OF COMPUTING

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4.	WEEK 4 : 1 . a college wants to collect student details through an online admission form design a registration form using only html tags(no css) with propern labels table alignment,background color and borders 2 . A Company wants to design a webpage that display two different forms side by side using iframes in which one should display a login form and other should display register form		
5	WEEK 5 : 1.To create a responsive card layout using HTML and CSS with three cards, each containing an image, title, and button 2. To design a mini website using iframe with navigation links (Home, About, Contact), where clicking on each link displays the respective content within the same page using internal or external CSS. 3. To design an Amrita login page using HTML and CSS that displays different campuses, where clicking on each campus shows its details on the same page		

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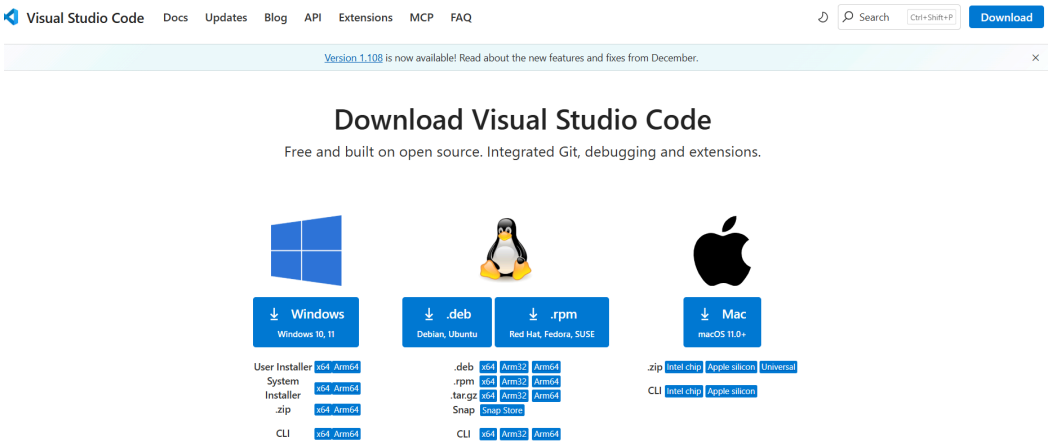
6.	WEEK 6: 1. Design a responsive e-commerce application using the grid layout. This application should contain different categories of products such as electronics, clothing, home-appliances, books. Based on the category we select corresponding products should be displayed on the sidebar.		
7	WEEK 7 :		

WEEK -1

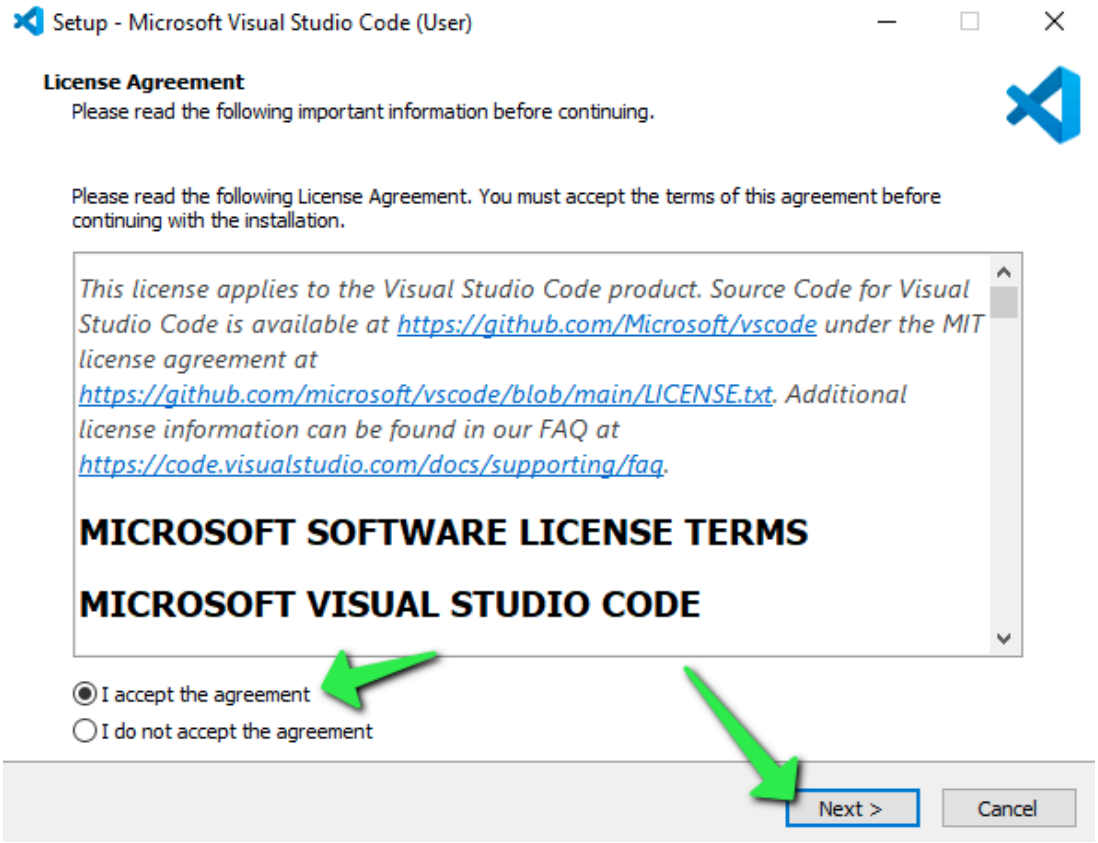
1. <u>AIM</u>: Steps to install VS CODE

<u>Procedure</u> :

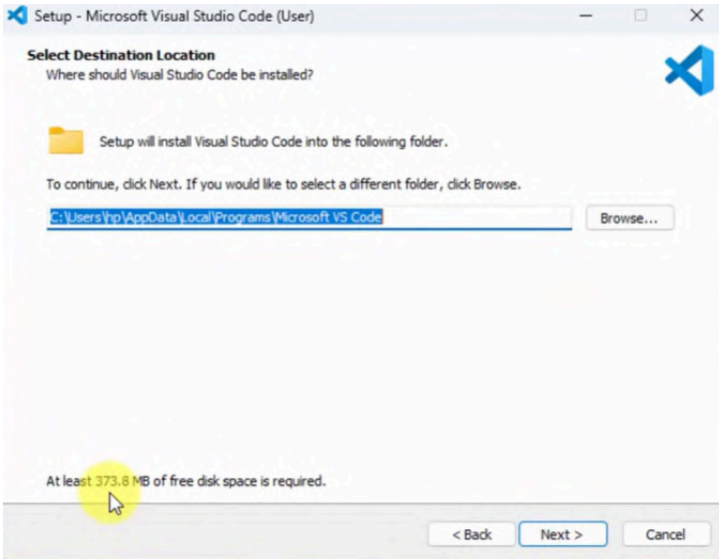
step - 1



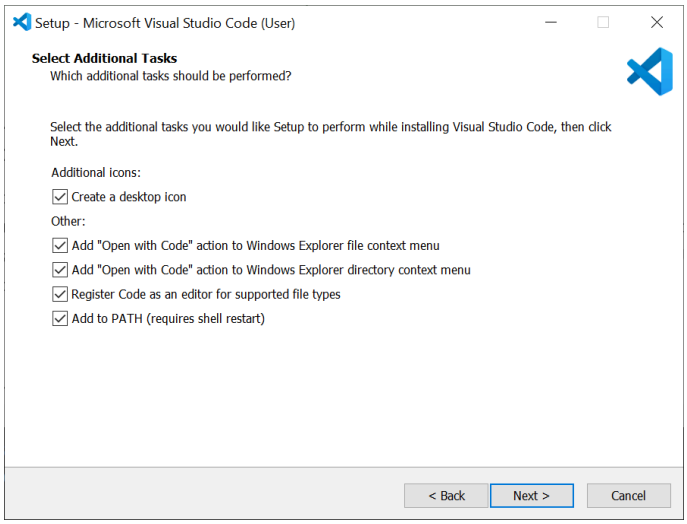
step - 2



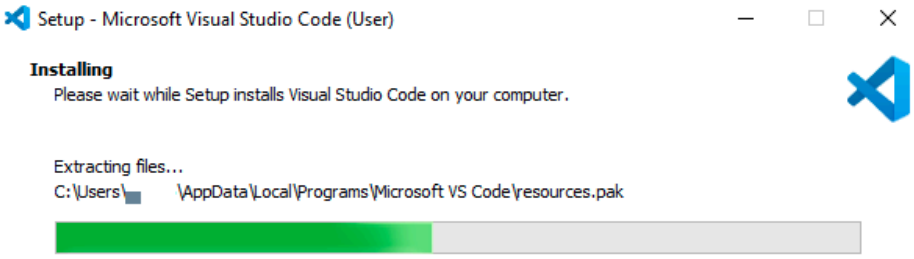
step -3



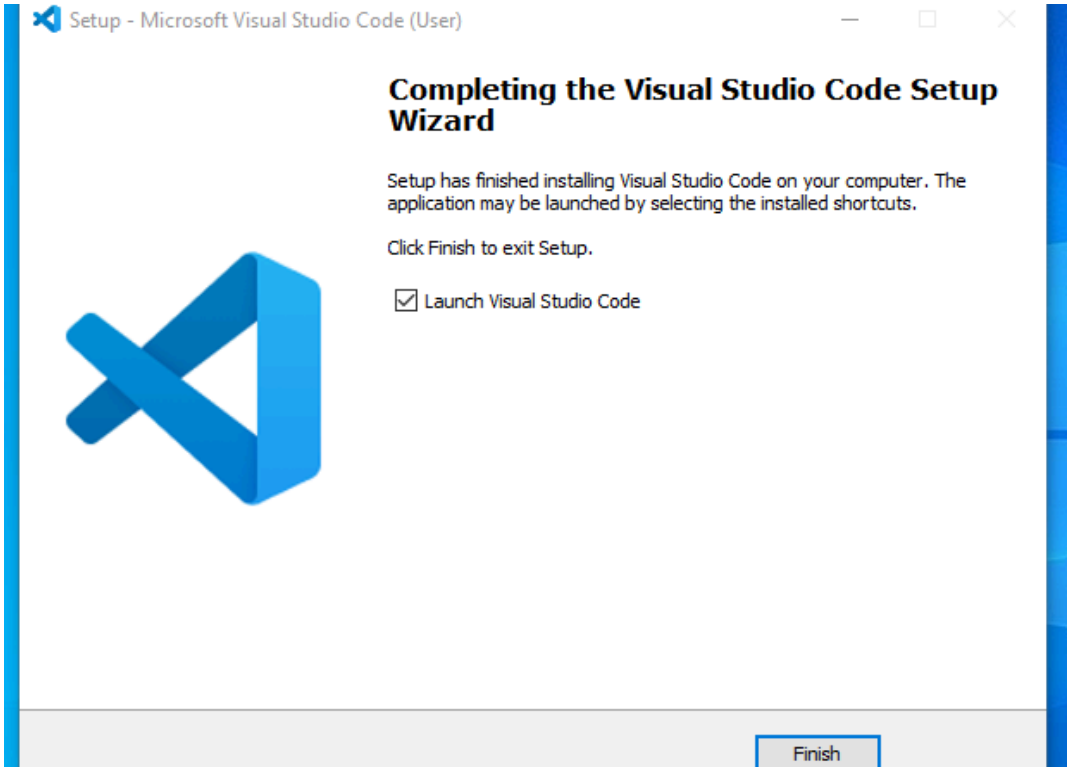
step - 4



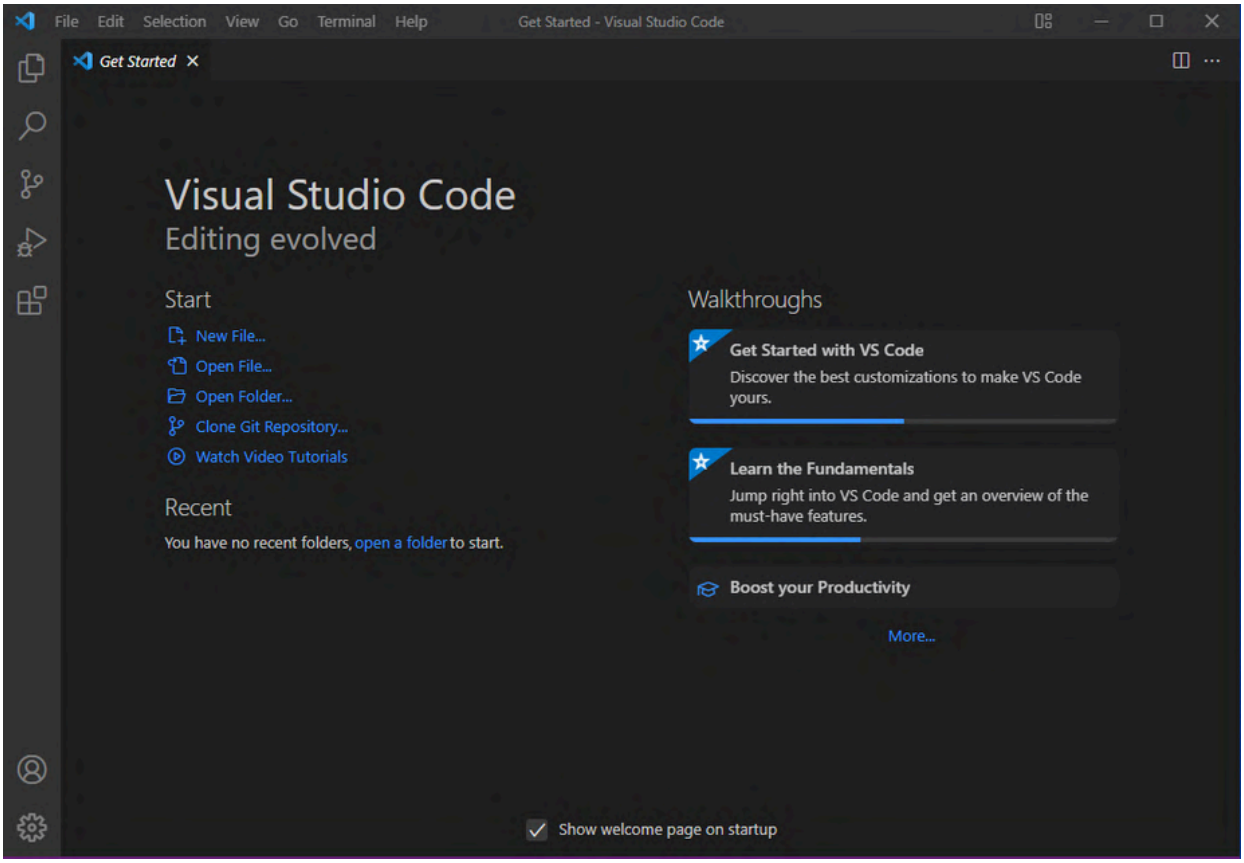
step - 5



step -6


Setup - Microsoft Visual Studio Code (User)
Completing the Visual Studio Code Setup Wizard
Setup has finished installing Visual Studio Code on your computer. The application may be launched by selecting the installed shortcuts.
Click Finish to exit Setup.
Launch Visual Studio Code
Finish

step -7


File Edit Selection View Go Terminal Help
Get Started - Visual Studio Code
Get Started
Visual Studio Code
Editing evolved
Start
New File...
Open File...
Open Folder...
Clone Git Repository...
Watch Video Tutorials
Recent
You have no recent folders, open a folder to start.
Walkthroughs
Get Started with VS Code
Discover the best customizations to make VS Code yours.
Learn the Fundamentals
Jump right into VS Code and get an overview of the must-have features.
Boost your Productivity
More...
Show welcome page on startup

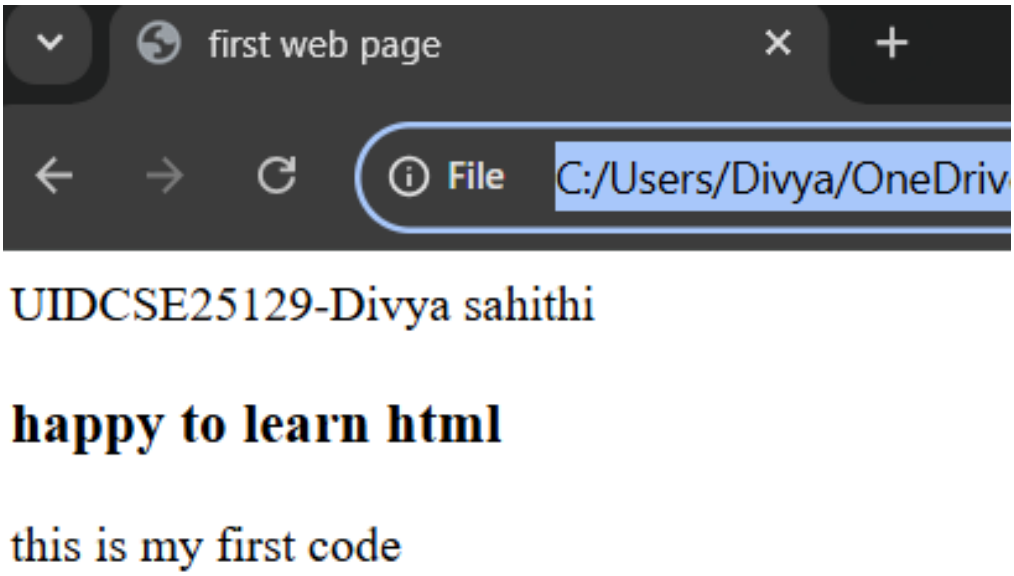
2. Aim : To learn the basics of html(basics.html)

Program:

UIDCSE25129-Divya sahithi

```
<!DOCTYPE html>
<html>
  <head>
    <title>first web page</title>
  </head>

  <body>
    <h3>happy to learn html</h3>
    <p>this is my first code</p>
  </body>
</html>
```

Output:



Explanation of the tags:

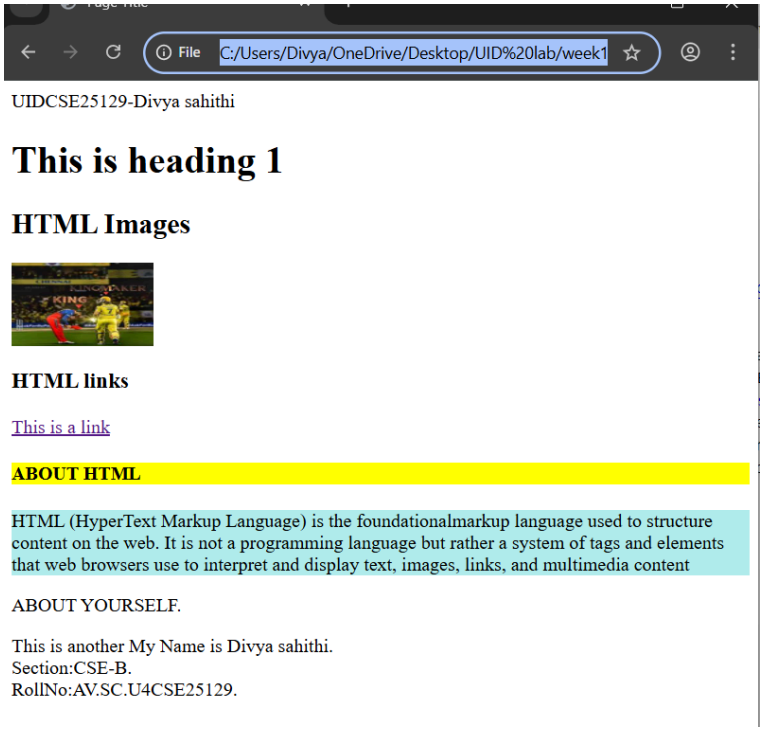
- HTML stands for Hyper Text Markup Language.
- HTML is used to create and structure web pages.
- It tells the web browser what to display and how to display it.
- **<DOCTYPE HTML> :** The <DOCTYPE html>element tells the browser , this is an HTML5 document
- **<html>**: The <html> element is the root element of an HTML page.
- **<head>:** The <head> element contains meta information about the HTML page.
- **<title>:** The <title> element specifies a title for the HTML page.
- **<body>:** The <body>element contains all visible content like text ,images ,links ,tables ,etc.
- **<h3>:** The <h3> element defines a large heading.
- **<p>:** The <p> element defines a paragraph.

3. Aim : understanding basic html tags

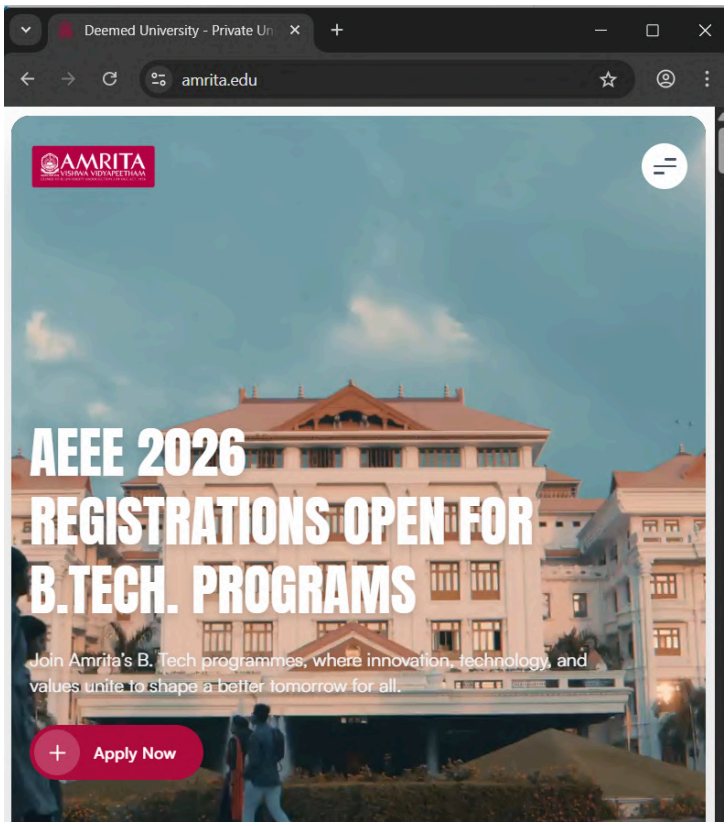
Program:UIDCSE25129-Divya sahithi

```
<!DOCTYPE html>

<html>

<head>

  <title>Page Title</title>

</head>

<body>

   <h1>This is heading 1</h1>

   <h2>HTML Images</h2>

   <img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTXCOXM4q-
IK0MFwcWErgc34P9crNwz2ZkaPg&s"

   alt="thala" width="120" height="70">

   <h3>HTML links</h3>

   <a href="https://www.amrita.edu">This is a link</a>

   <h4 style="background-color: yellow;">ABOUT HTML</h4>

   <p style="background-color: paleturquoise;">HTML (HyperText Markup Language)

      is the foundationalmarkup language used to structure content on the web.

      It is not a programming language but rather a system of tags and elements

      that web browsers use to interpret and display text, images, links,

      and multimedia content</p>

   <p> ABOUT YOURSELF.<br>

   <p> This is another

      My Name is Divya sahithi.<br> Section:CSE-B.<br>

      RollNo:AV.SC.U4CSE25129.<br>

</body>

</html>
```

Output:



If we click on the link we get amrita website like this



Explanation of the tags:

- **
:** The HTML <br> element defines a line break. it is an empty tag with no end tag
- **Style:** The HTML style attribute is used to add styles to an element such as color, font, size and more
- **<img> :** The <img> tag is a fundamental HTML element used to embed an image into a web page
- **<a> :** The HTML <a> tag ,which stands for “anchor”, is used to define a hyperlink.

WEEK -2

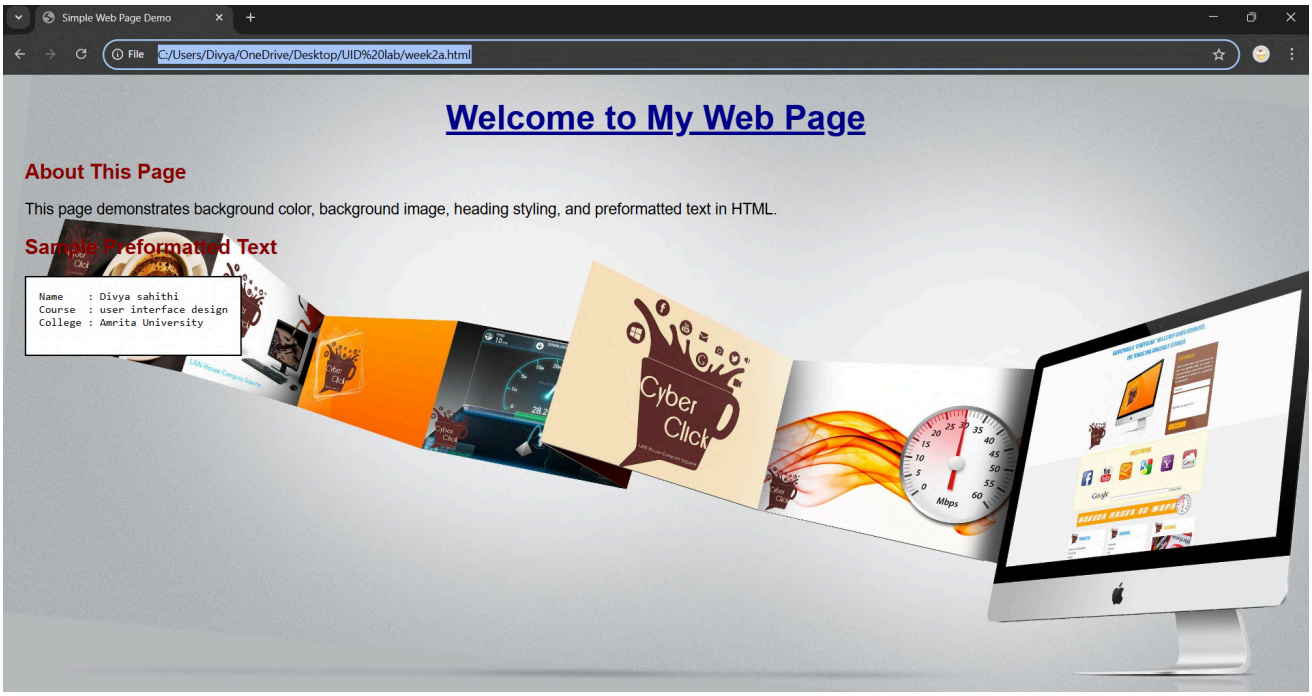
2a.Aim: To design a simple web page using HTML that demonstrates the use of background color, background image, heading styling, and preformatted text

Program:

```
<!DOCTYPE html>

<html>

<head>

  <title>Simple Web Page Demo</title>

  <style>

    /* Background color and image */

    body {

      background-color: lightblue;  /* Background color */

      background-image: url("https://wallpaperaccess.com/full/2945044.jpg");

      background-repeat: no-repeat;

      background-size: cover;

      background-attachment: fixed;

      font-family: Arial, sans-serif   }

    /* Heading styling */

    h1 {

      color: darkblue;

      text-align: center;

      text-decoration: underline;

      font-size: 40px;     }
```

```
  h2 {   color: darkred;
         margin-left: 20px;}
     /* Paragraph styling */
     p {   font-size: 18px;
         margin-left: 20px;   }
     /* Preformatted text styling */
     pre {
         background-color: white;
         padding: 15px;
         border: 2px solid black;
         width: fit-content;
         margin-left: 20px;}
  </style>
</head>
<body>
  <h1>Welcome to My Web Page</h1>
  <h2>About This Page</h2>
  <p>This page demonstrates background color, background image, heading styling, and preformatted text in HTML.</p>
  <h2>Sample Preformatted Text</h2>
  <pre>
Name    : Divya sahithi
Course  : user interface design
College : Amrita University
  </pre></body></html>
```

Output:



Explanation of the tags:

- h1>, <h2> → Headings
- <p> → Paragraph
- <pre> → Preformatted text

2b.Aim : To create a static webpage using only HTML that displays basic information about Amrita Vishwa Vidyapeetham, including a heading descriptive text, background styling through HTML attributes, and a table showing the list of campuses in different states.

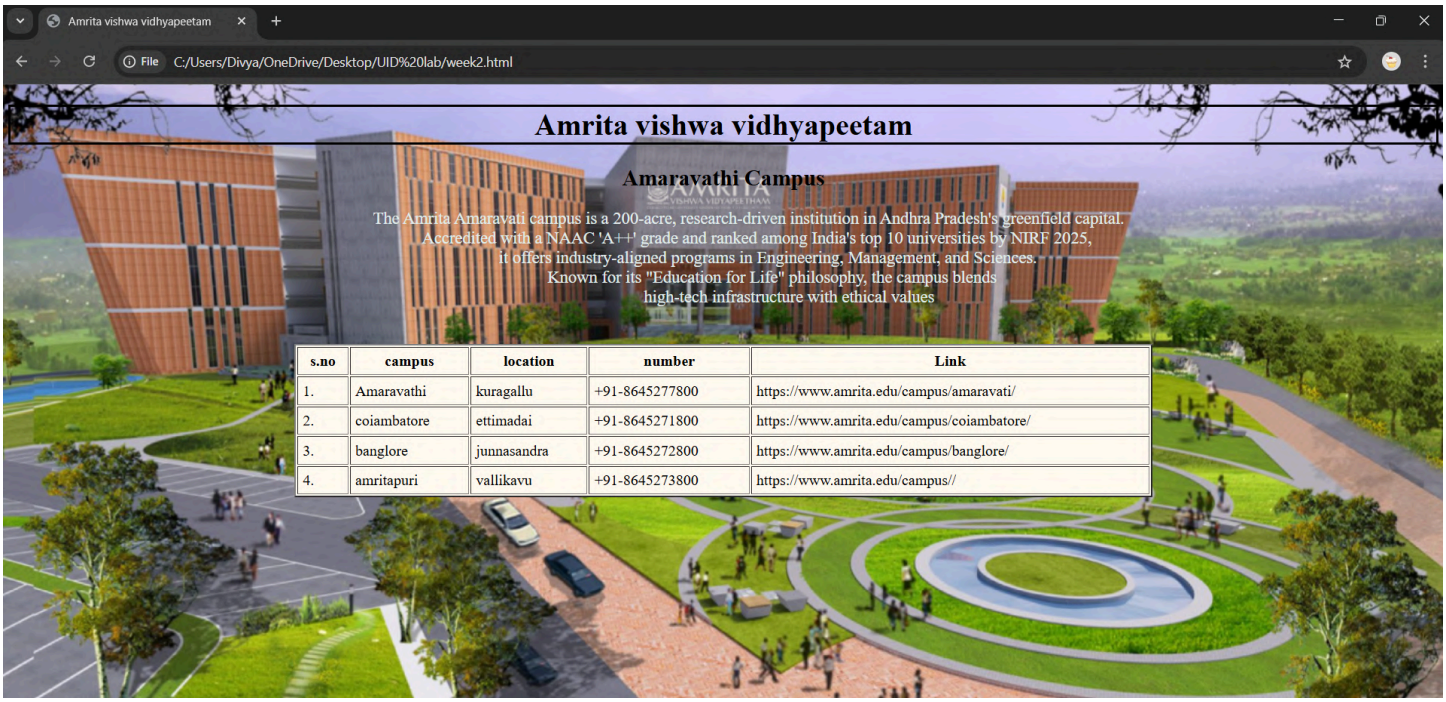
Procedure:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Amrita vishwa vidhyapeetam</title>
  </head>
 <body style="background-color:rgb(255, 244, 230);
  background-image:url(https://webfiles.amrita.edu/2022/03/nbElb5oz-amrita-amaravati-campus-banner-2022.jpg);
   background-size: cover ; background-repeat: no repeat;">
    <h1 style="text-align:center; color:rgb(0, 0, 0);border: 3px solid black;
    font-family: 'Times New Roman', Times, serif;"> Amrita vishwa vidhyapeetam</h1>
    <h2 style="text-align: center; color: black;font-family: 'Times New Roman', Times, serif;">
        Amaravathi Campus </h2>
    <pre style="text-align: center;font-family: 'Times New Roman', Times, serif;color:rgb(226, 239, 237);
    font-size: large;">
       The Amrita Amaravati campus is a 200-acre, research-driven institution in Andhra Pradesh's greenfield capital.
           Accredited with a NAAC 'A++' grade and ranked among India's top 10 universities by NIRF 2025,
               it offers industry-aligned programs in Engineering, Management, and Sciences.
                 Known for its "Education for Life" philosophy, the campus blends
                      high-tech infrastructure with ethical values


   </pre>
    <table border="2"; align="center"; cellpadding="5";cellspacing="10"; width="60%";
```

```
style="background-color:floralwhite;">
    <tr>
        <th>s.no</th>
        <th>campus</th>
        <th>location</th>
        <th>number</th>
        <th>Link</th>
    </tr>
     <tr>
        <td>1.</td>
        <td >Amaravathi</td>
        <td >kuragallu</td>
        <td>+91-8645277800</td>
        <td >https://www.amrita.edu/campus/amaravati/</td>
    </tr>
    <tr>
        <td>2.</td>
        <td >coiambatore</td>
        <td >ettimadai</td>
        <td>+91-8645271800</td>
        <td >https://www.amrita.edu/campus/coiambatore/</td>
    </tr>
    <tr>
 <td>3.</td>
        <td >banglore</td>
```

```
        <td >junnasandra</td>

        <td>+91-8645272800</td>

        <td >https://www.amrita.edu/campus/banglore/</td>

      </tr>

       <tr>

        <td>4.</td>

        <td >amritapuri</td>

        <td >vallikavu</td>

        <td>+91-8645273800</td>

        <td >https://www.amrita.edu/campus//</td>

      </tr>


    </table>

  </body>

</html>
```

Output:



s.no	campus	location	number	Link
1.	Amaravathi	kuragallu	+91-8645277800	https://www.amrita.edu/campus/amaravati/
2.	coiambatore	ettimadai	+91-8645271800	https://www.amrita.edu/campus/coiambatore/
3.	banglore	junnasandra	+91-8645272800	https://www.amrita.edu/campus/banglore/
4.	amritapuri	vallikavu	+91-8645273800	https://www.amrita.edu/campus//

Explanation of the tags:

- <h1>, <h2> – Heading tags for main title and subtitle.
- <pre> – Displays text in preformatted style, preserving spaces and line breaks.
- <table> – Creates a table to arrange data in rows and columns.
- Attributes: border, align, cellpadding, cellspacing, width.
- <tr> – Defines a table row.
- <th> – Table heading cell (bold and centered).
- <td> – Table data cell for normal content.
- Inline CSS (style attribute) – Used to set background color, image, font, alignment, and borders.

2cAim: To design a restaurants menu webpage using HTML and displaying menu items in a table format with proper layout and visual styling.

Procedure:

```
<!DOCTYPE html>

<html>

<head>

  <title>paradise restaurant - Luxury Edition</title>

  <link href="https://fonts.googleapis.com/css2?family=Playfair+Display:ital@1&display=swap" rel="stylesheet">

  <style>

    body {   margin: 0;

      font-family: 'Playfair Display', serif;
      background: url("https://images.unsplash.com/photo-1552566626-52f8b828add9") no-repeat center center fixed;

      background-size: cover;

      color: gold;}

    .header { background: rgba(0, 0, 0, 0.85);

      text-align: center;

      padding: 35px;

      font-size: 40px;

      letter-spacing: 3px;

      font-style: italic;

      color: gold;

      border-bottom: 3px solid;   }
```

```
.menu-section { width: 85%;
        margin: 40px auto;
        padding: 25px;
        border-radius: 15px;
        background: rgba(0, 0, 0, 0.75);
        box-shadow: 0 8px 25px rgba(0,0,0,0.8);
      h2 { text-align: center;
        font-style: italic;
        font-size: 28px;
        color: gold;
        border-bottom: 2px solid gold;
        padding-bottom: 10px;    }
table {width: 100%;
        border-collapse: collapse;
        margin-top: 20px;
        font-style: italic;}
 th, td {  padding: 14px;
        text-align: center;    }
   th {    color: gold;
        font-size: 20px;
        border-bottom: 2px solid gold;  }
```

```
tr {background: transparent; }
    tr:hover { background: rgba(255, 215, 0, 0.15);
        transition: 0.3s;    }
.price {   color: #ffd700;
           font-weight: bold;  }
  .footer { text-align: center;
           padding: 20px;
           background: rgba(0,0,0,0.9);
           color: gold;
           font-style: italic;
           border-top: 2px solid gold; }
   </style>
</head>
<body>
<div class="header">
   Paradise cusine ⭐⭐⭐⭐⭐
</div><div class="menu-section">
   <h2>Signature Starters</h2>
   <table>
      <tr>
        <th>Item</th>
          <th>Description</th>
          <th>Price</th>
      </tr>
```

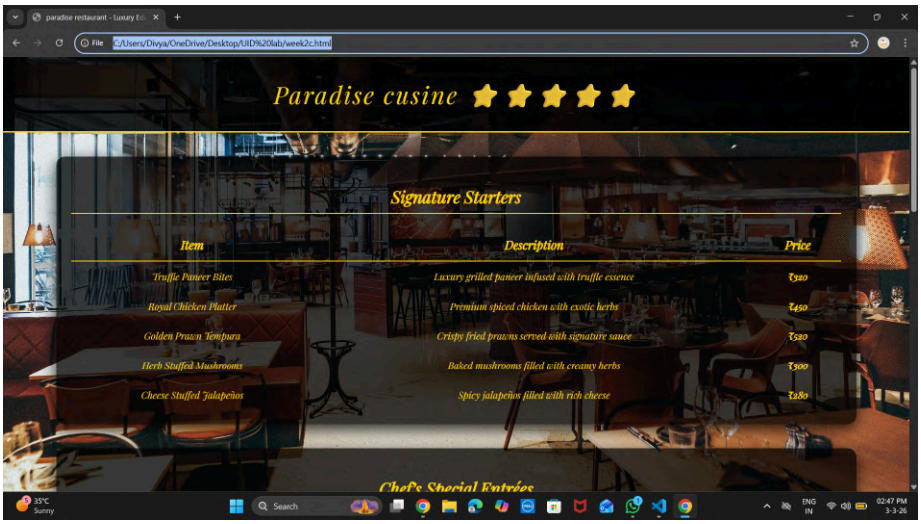
```
<tr>
        <td>Truffle Paneer Bites</td>
        <td>Luxury grilled paneer infused with truffle essence</td>
        <td class="price">₹320</td>
      </tr> <tr>
        <td>Royal Chicken Platter</td>
        <td>Premium spiced chicken with exotic herbs</td>
        <td class="price">₹450</td>
      </tr>  <tr>
        <td>Golden Prawn Tempura</td>
        <td>Crispy fried prawns served with signature sauce</td>
        <td class="price">₹520</td>
      </tr><tr>
        <td>Herb Stuffed Mushrooms</td>
        <td>Baked mushrooms filled with creamy herbs</td>
        <td class="price">₹300</td>
      </tr>  <tr>
        <td>Cheese Stuffed Jalapeños</td>
        <td>Spicy jalapeños filled with rich cheese</td>
        <td class="price">₹280</td>
      </tr>
    </table>
</div>
```

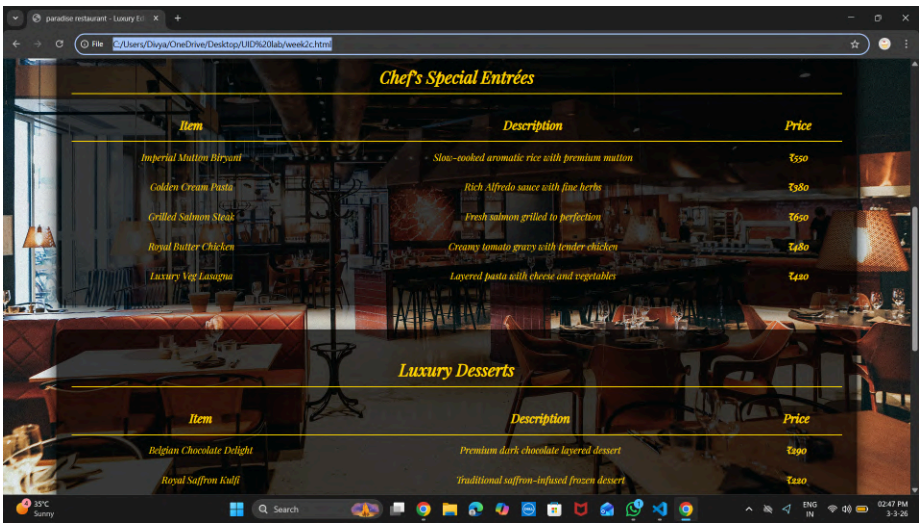
```
<div class="menu-section">

  <h2>Chef’s Special Entrées</h2>

  <table>  <tr>

        <th>Item</th>

        <th>Description</th>

        <th>Price</th> </tr>

     <tr>  <td>Imperial Mutton Biryani</td>

        <td>Slow-cooked aromatic rice with premium mutton</td>

        <td class="price">₹550</td>  </tr>

     <tr>      <td>Golden Cream Pasta</td>

        <td>Rich Alfredo sauce with fine herbs</td>

        <td class="price">₹380</td>  </tr>

     <tr>    <td>Grilled Salmon Steak</td>

        <td>Fresh salmon grilled to perfection</td>

        <td class="price">₹650</td>  </tr>

 <tr> <td>Royal Butter Chicken</td>

        <td>Creamy tomato gravy with tender chicken</td>

        <td class="price">₹480</td> </tr>

     <tr>   <td>Luxury Veg Lasagna</td>

        <td>Layered pasta with cheese and vegetables</td>

        <td class="price">₹420</td>  </tr>

  </table></div>
```

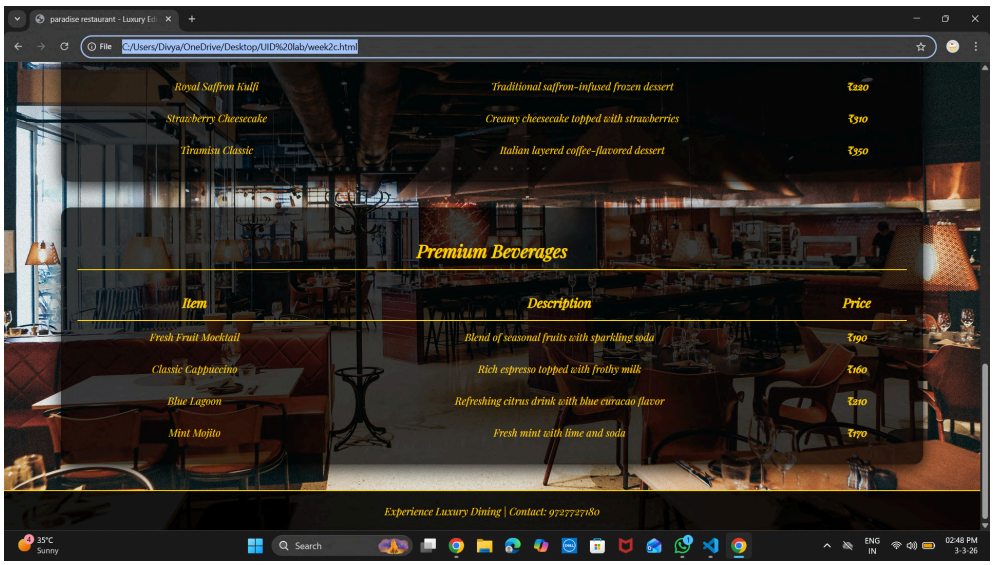
```
div class="menu-section">
  <h2>Luxury Desserts</h2>
  <table>
    <tr>   <th>Item</th>
      <th>Description</th>
      <th>Price</th>
    </tr><tr>
      <td>Belgian Chocolate Delight</td>
      <td>Premium dark chocolate layered dessert</td>
      <td class="price">₹290</td>
    </tr>  <tr>
      <td>Royal Saffron Kulfi</td>
      <td>Traditional saffron-infused frozen dessert</td>
      <td class="price">₹220</td>
    </tr> <tr>
      <td>Strawberry Cheesecake</td>
      <td>Creamy cheesecake topped with strawberries</td>
      <td class="price">₹310</td>
    </tr> <tr>
      <td>Tiramisu Classic</td>
      <td>Italian layered coffee-flavored dessert</td>
      <td class="price">₹350</td>
    </tr></table>
</div>
```

```
div class="menu-section">

   <h2>Premium Beverages</h2>

   <table>  <tr>  <th>Item</th>

         <th>Description</th>

         <th>Price</th></tr>

      <tr>   <td>Fresh Fruit Mocktail</td>

         <td>Blend of seasonal fruits with sparkling soda</td>

         <td class="price">₹190</td>  </tr>

      <tr> <td>Classic Cappuccino</td>

         <td>Rich espresso topped with frothy milk</td>

         <td class="price">₹160</td>

      </tr>  <tr>

         <td>Blue Lagoon</td>

         <td>Refreshing citrus drink with blue curacao flavor</td>

         <td class="price">₹210</td>

      </tr> <tr><td>Mint Mojito</td>

         <td>Fresh mint with lime and soda</td>

         <td class="price">₹170</td></tr>

   </table>

</div><div class="footer">

   Experience Luxury Dining | Contact: 9727727180

</div>

</body>

</html>
```

Output:


paradise restaurant - Luxury Ed
File C:/Users/Divya/OneDrive/Desktop/UID%20lab/week2c.html
Paradise cusine
Signature Starters
Item
Description
Price
Truffle Paneer Bites
Luxury grilled paneer infused with truffle essence
₹320
Royal Chicken Platter
Premium spiced chicken with exotic herbs
₹450
Golden Prawn Tempura
Crispy fried prawns served with signature sauce
₹520
Herb Stuffed Mushrooms
Baked mushrooms filled with creamy herbs
₹300
Cheese Stuffed Jalapeños
Spicy jalapeños filled with rich cheese
₹280
Chef's Special Entrées


paradise restaurant - Luxury Ed
File C:/Users/Divya/OneDrive/Desktop/UID%20lab/week2c.html
Chef's Special Entrées
Item
Description
Price
Imperial Mutton Biryani
Slow-cooked aromatic rice with premium mutton
₹550
Golden Cream Pasta
Rich Alfredo sauce with fine herbs
₹380
Grilled Salmon Steak
Fresh salmon grilled to perfection
₹650
Royal Butter Chicken
Creamy tomato gravy with tender chicken
₹480
Luxury Veg Lasagna
Layered pasta with cheese and vegetables
₹420
Luxury Desserts
Item
Description
Price
Belgian Chocolate Delight
Premium dark chocolate layered dessert
₹290
Royal Saffron Kulfi
Traditional saffron-infused frozen dessert
₹220


paradise restaurant - Luxury Ed
File C:/Users/Divya/OneDrive/Desktop/UID%20lab/week2c.html
Royal Saffron Kulfi
Traditional saffron-infused frozen dessert
₹220
Strawberry Cheesecake
Creamy cheesecake topped with strawberries
₹310
Tiramisu Classic
Italian layered coffee-flavored dessert
₹350
Premium Beverages
Item
Description
Price
Fresh Fruit Mocktail
Blend of seasonal fruits with sparkling soda
₹190
Classic Cappuccino
Rich espresso topped with frothy milk
₹160
Blue Lagoon
Refreshing citrus drink with blue curacao flavor
₹210
Mint Mojito
Fresh mint with lime and soda
₹170
Experience Luxury Dining | Contact: 9727727180

Explanation of the tags:

- background: url(...) → Adds wallpaper
- rgba() → Transparent background
- border-radius → Rounded corners
- box-shadow → Shadow effect
- :hover → Effect when mouse moves over row
- font-style: italic → Italic text

<link> → External resource connection

<style> → Internal CSS

<body> → Visible content

 → Section container

<h2> → Sub heading

<table> → Creates table

<tr> → Table row

<th> → Table heading

<td> → Table data

WEEK -3

1. Aim: Construction of Class Timetable using html Elements

Program:

UIDlab-cse25129(Divya)

```
<!DOCTYPE html>

<html>

<head>

<title>Class Time Table</title>


<style>

.vertical {

   writing-mode: vertical-rl;

   transform: rotate(180deg);

   text-align: center;

   font-weight: bold;

   letter-spacing: 2px;

}

</style>


</head>


<body>


<h2 align="center">CLASS TIME TABLE</h2>


<table border="1" cellspacing="0" cellpadding="8" align="center">
```

```
<tr>
<th>Time / Day</th>
<th>Slot 1<br>08:55–09:45</th>
<th>Slot 2<br>09:45–10:35</th>
<th>10:35–10:45</th>
<th>Slot 3<br>10:45–11:35</th>
<th>Slot 4<br>11:35–12:25</th>
<th>Slot 5<br>12:25–01:15</th>
<th>01:15–02:05</th>
<th>Slot 6<br>02:10–03:00</th>
<th>03:00–03:10</th>
<th>Slot 7<br>03:10–04:00</th>
<th>Slot 8<br>04:00–04:50</th>
</tr>

<tr>
<th>Monday</th>
<td colspan="2">23MAT117 Linear Algebra LAB (BYOD)</td>

<td rowspan="5" bgcolor="lightgreen" class="vertical">SHORT BREAK</td>

<td>LIBRARY</td>
<td>23PHY115 Modern Physics</td>
<td>LIBRARY</td>

<td rowspan="5" bgcolor="lightgreen" class="vertical">LUNCH BREAK</td>

<td>23MEE115 Manufacturing Practice LAB</td>
```

```
<td rowspan="5" bgcolor="lightgreen" class="vertical">SHORT BREAK</td>

<td colspan="2">23MEE115 Manufacturing Practice LAB</td>

</tr>

<tr>

<th>Tuesday</th>

<td>23MAT116 Discrete Mathematics</td>

<td>23MAT117 Linear Algebra</td>

<td>23PHY115 Modern Physics</td>

<td>23CSE111 Object Oriented Programming</td>

<td>23CSE113 User Interface Design</td>

<td>Library/Sports</td>

<td colspan="2">22ADM111 Glimpses of Glorious India</td>

</tr>

<tr>

<th>Wednesday</th>

<td colspan="2">23CSE111 OOPS Lab</td>

<td>23MAT116 Discrete Mathematics</td>

<td>23CSE113 User Interface Design</td>

<td>22ADM111 Glimpses of Glorious India</td>

<td style="color:sandybrown;">COUNSELLING</td>

<td colspan="2">Library/Sports</td>

</tr>
```

```
<tr>

<th>Thursday</th>

<td>23MAT117 Linear Algebra</td>

<td>23CSE111 Object Oriented Programming</td>

<td>23MAT116 Discrete Mathematics</td>

<td style="color:sandybrown;">COUNSELLING</td>

<td>LIBRARY</td>

<td>23PHY115 Modern Physics (T)</td>

<td colspan="2">Library/Sports</td>

</tr>


<tr>

<th>Friday</th>

<td colspan="2">23CSE113 User Interface Design Lab BYOD</td>

<td>23MAT117 Linear Algebra</td>

<td>23CSE111 Object Oriented Programming</td>

<td>Library/Sports</td>

<td>22ADM111 Glimpses of Glorious India (P)</td>

<td colspan="2">23MAT116 Discrete Mathematics Lab</td>

</tr>


</table>


</body>

</html>
```

Output:

Class Time Table

File C:/Users/Divya/OneDrive/Desktop/UID%20lab/timetable.html

UIDlab-cse25129(Divya)

CLASS TIME TABLE

Time / Day	Slot 1 08:55–09:45	Slot 2 09:45–10:35	10:35–10:45	Slot 3 10:45–11:35	Slot 4 11:35–12:25	Slot 5 12:25–01:15	01:15–02:05	Slot 6 02:10–03:00	03:00–03:10	Slot 7 03:10–04:00	Slot 8 04:00–04:50
Monday	23MAT117 Linear Algebra LAB (BYOD)		SHORT BREAK	LIBRARY	23PHY115 Modern Physics	LIBRARY	LUNCH BREAK	23MEE115 Manufacturing Practice LAB	SHORT BREAK	23MEE115 Manufacturing Practice LAB	
Tuesday	23MAT116 Discrete Mathematics	23MAT117 Linear Algebra		23PHY115 Modern Physics	23CSE111 Object Oriented Programming	23CSE113 User Interface Design		Library/Sports		22ADM111 Glimpses of Glorious India	
Wednesday	23CSE111 OOPS Lab			23MAT116 Discrete Mathematics	23CSE113 User Interface Design	22ADM111 Glimpses of Glorious India		COUNSELLING		Library/Sports	
Thursday	23MAT117 Linear Algebra	23CSE111 Object Oriented Programming		23MAT116 Discrete Mathematics	COUNSELLING	LIBRARY		23PHY115 Modern Physics (T)		Library/Sports	
Friday	23CSE113 User Interface Design Lab BYOD			23MAT117 Linear Algebra	23CSE111 Object Oriented Programming	Library/Sports		22ADM111 Glimpses of Glorious India (P)		23MAT116 Discrete Mathematics Lab	

Explanation of the tags:

- <table> : is used to create the timetable structure with borders and spacing.
- <tr> :defines table rows for each day.
- <th> :is used for headings like time slots and days.
- <td> : is used to enter subjects and activities.
- colspan :merges columns for lab hours.
- rowspan : merges rows for short break and lunch break.
- bgcolor :gives background color to break cells.
- class="vertical" : applies vertical text style.
- style attribute changes text color for specific cells.

2 . Aim: Construction of web page Displaying Each Syllabus of each Subject Displaying as Image Format and also displaying the Corresponding time table of current semester

Program:

UIDlab-CSE25129(divya)

```
<!DOCTYPE html>
<html>
<head>
  <title>Syllabus, Faculty & Master Time Table</title>

  <style>
    body{
      font-family: Arial;
      background-color: #f2f6ff;
      text-align: center;
    }

    h2{
      margin: 25px 0 15px 0;
    }

    /* Gallery */
    .gallery{
      display: grid;
      grid-template-columns: 1fr 1fr ;
```

```
gap: 25px;
    width: 90%;
    margin: auto;
}

.card{
    background-color: white;
    padding: 10px;
    border-radius: 10px;
    border: 2px solid black;
}

.card img{
    width: 100%;
    border-radius: 8px;
}

.title{
    font-weight: bold;
    font-size: 18px;
    margin: 8px 0;
}

.faculty{
    color: #333;
    margin-bottom: 8px;
}
```

```
/* Tables */
    table{
        border-collapse: collapse;
        margin: 30px auto;
        background-color: white;
        width: 95%;
    }
    th{
        background-color: #dbe4f2;
    }
    td, th{
        border: 1px solid black;
        padding: 8px;
        text-align: center;
    }
    .break{
        background-color: yellow;
        font-weight: bold;
    }
    .vertical {
       writing-mode: vertical-rl;
       transform: rotate(180deg);
       text-align: center;
       font-weight: bold;
        letter-spacing: 2px;
    }
  </style>
```

```
</head>

<body>

<h2>SUBJECT SYLLABUS & FACULTY</h2>

<div class="gallery">

  <div class="card">

    <div class="title">23MAT116 – Discrete Mathematics</div>

    <div class="faculty">Faculty: Dr. Srivasa Rao Thota</div>

    <img src="C:\Users\Divya\OneDrive\Desktop\UID lab\syllabusproject\img1.png.png">

  </div>


  <div class="card">

    <div class="title">23MAT117 – Linear Algebra</div>

    <div class="faculty">Faculty: Mr. Sapavat Bixapathi</div>

    <img src="C:\Users\Divya\OneDrive\Desktop\UID lab\syllabusproject\img2.png.png">

  </div>

  <div class="card">

    <div class="title">23CSE111 – Object Oriented Programming</div>

    <div class="faculty">Faculty: Dr. Balaji TK</div>

    <img src="C:\Users\Divya\OneDrive\Desktop\UID lab\syllabusproject\img3.png.png">

  </div>

  <div class="card">

    <div class="title">23PHY115 – Modern Physics</div>

    <div class="faculty">Faculty: Dr. C R Kesavalu</div>

    <img src="C:\Users\Divya\OneDrive\Desktop\UID lab\syllabusproject\img4.png.png">

  </div>

  <div class="card">

    <div class="title">23CSE113 – User Interface Design</div>
```

```
    <div class="faculty">Faculty: Dr. Rajkumar Batchu<br>Assisting: Mr. Barge Bharadwaj</div>

    <img src="C:\Users\Divya\OneDrive\Desktop\UID lab\syllabusproject\img5.png.png">

  </div>


  <div class="card">

    <div class="title">23MEE115 – Manufacturing Practice Lab</div>

    <div class="faculty">Faculty: Dr. Sathies S.</div>

    <img src="C:\Users\Divya\OneDrive\Desktop\UID lab\syllabusproject\img6.png.png">

  </div>


</div>

<h2 align="center">Master Time Table CSE II Semester B Section</h2>

<table border="1" cellspacing="0" cellpadding="8" align="center">


<tr>

<th>Time / Day</th>

<th>Slot 1<br>08:55–09:45</th>

<th>Slot 2<br>09:45–10:35</th>

<th>10:35–10:45</th>

<th>Slot 3<br>10:45–11:35</th>

<th>Slot 4<br>11:35–12:25</th>

<th>Slot 5<br>12:25–01:15</th>

<th>01:15–02:05</th>

<th>Slot 6<br>02:10–03:00</th>

<th>03:00–03:10</th>

<th>Slot 7<br>03:10–04:00</th>

<th>Slot 8<br>04:00–04:50</th>

</tr>
```

```
<tr>
<th>Monday</th>
<td colspan="2">23MAT117 Linear Algebra LAB (BYOD)</td>

<td rowspan="5" bgcolor="lightgreen" class="vertical">SHORT BREAK</td>
<td>LIBRARY</td>
<td>23PHY115 Modern Physics</td>
<td>LIBRARY</td>

<td rowspan="5" bgcolor="lightgreen" class="vertical">LUNCH BREAK</td>

<td>23MEE115 Manufacturing Practice LAB</td>

<td rowspan="5" bgcolor="lightgreen" class="vertical">SHORT BREAK</td>

<td colspan="2">23MEE115 Manufacturing Practice LAB</td>
</tr>

<tr>
<th>Tuesday</th>
<td>23MAT116 Discrete Mathematics</td>
<td>23MAT117 Linear Algebra</td>
<td>23PHY115 Modern Physics</td>
<td>23CSE111 Object Oriented Programming</td>
<td>23CSE113 User Interface Design</td>
<td>Library/Sports</td>
<td colspan="2">22ADM111 Glimpses of Glorious India</td>
</tr>
```

```
<th>Wednesday</th>

<td colspan="2">23CSE111 OOPS Lab</td>

<td>23MAT116 Discrete Mathematics</td>

<td>23CSE113 User Interface Design</td>

<td>22ADM111 Glimpses of Glorious India</td>

<td style="color:sandybrown;">COUNSELLING</td>

<td colspan="2">Library/Sports</td>

</tr>

<tr>

<th>Thursday</th>

<td>23MAT117 Linear Algebra</td>

<td>23CSE111 Object Oriented Programming</td>

<td>23MAT116 Discrete Mathematics</td>

<td style="color:sandybrown;">COUNSELLING</td>

<td>LIBRARY</td>

<td>23PHY115 Modern Physics (T)</td>

<td colspan="2">Library/Sports</td>

</tr>

<tr>

<th>Friday</th>

<td colspan="2">23CSE113 User Interface Design Lab BYOD</td>

<td>23MAT117 Linear Algebra</td>

<td>23CSE111 Object Oriented Programming</td>

<td>Library/Sports</td>

<td>22ADM111 Glimpses of Glorious India (P)</td>

<td colspan="2">23MAT116 Discrete Mathematics Lab</td>

</tr>
```

<tr>

<th colspan="1">Course Code</th>

<th colspan="3">Course Name</th>

<th>L-T-P</th>

<th>Credits</th>

<th colspan="3">Faculty Name</th>

<th colspan="3">Assisting Faculty</th>

</tr>

<tr>

<td colspan="1">23MAT116</td>

<td colspan="3">Discrete Mathematics</td>

<td>3-0-2</td>

<td>4</td>

<td colspan="3">Dr. Srivasa Rao Thota</td>

<td colspan="3"></td>

</tr>

<tr>

<td colspan="1">23MAT117</td>

<td colspan="3">Linear Algebra</td>

<td>3-0-2</td>

<td>4</td>

<td colspan="3">Mr. Sapavat Bixapathi</td>

<td colspan="3"></td>

</tr>

<tr>

<td colspan="1">23CSE111</td>

<td colspan="3">Object Oriented Programming</td>

<td>3-0-2</td>

<td>4</td>

<td colspan="3">Dr. Balaji TK</td>

<td colspan="3" ></td>

</tr>

<tr>

<td colspan="1">23PHY115</td>

<td colspan="3">Modern Physics</td>

<td>2-1-0</td>

<td>3</td>

<td colspan="3">Dr. C R Kesavalu</td>

<td colspan="3"></td>

</tr>

<tr>

<td colspan="1">23CSE113</td>

<td colspan="3">User Interface Design</td>

<td>2-0-2</td>

<td>3</td>

<td colspan="3">Dr. Rajkumar Batchu</td>

<td colspan="3">Mr. Barge Bharadwaj</td>

</tr>

<tr>

<td colspan="1">23MEE115</td>

<td colspan="3">Manufacturing Practice</td>

<td>0-0-3</td>

<td>1</td>

<td colspan="3">Dr. Sathies S.</td>

<td colspan="3"></td>

</tr>

<tr>

<td colspan="1">22ADM111</td>

<td colspan="3">Glimpses of Glorious India</td>

<td>2-0-1</td>

<td>2</td>

<td colspan="3">Dr. Siva Panuganti</td>

<td colspan="3"></td>

</tr>

</table>

</body>

</html>

Output:

Syllabus, Faculty & Master Time

File C:/Users/Divya/OneDrive/Desktop/UID%20lab/syllabus.html

UIDlab-CSE25129(divya)

SUBJECT SYLLABUS & FACULTY

23MAT116 – Discrete Mathematics

Faculty: Dr. Srivasa Rao Thota

Syllabus

Unit 1
Logic, Mathematical Reasoning and Counting: Logic, Prepositional Equivalence, Predicate and Quantifiers, Theorem Proving. Recursive Definitions, Recursive Algorithms, Basics of Counting, Pigeonhole Principle, Permutation and Combinations.

Unit 2
Relations and Their Properties: Representing Relations, Closure of Relations, Partial Ordering, Equivalence Relations and partitions.
Advanced Counting Techniques and Relations: Recurrence Relations, Solving Recurrence Relations, Generating Functions, Solutions of Homogeneous Recurrence Relations, Divide and Conquer Relations, Inclusion-Exclusion.

Unit 3
Graph Theory: Graphs and Sub graphs, isomorphism, matrices associated with graphs, degrees, walks, connected graphs, shortest path algorithm. Euler and Hamilton Graphs: Euler graphs, Euler's theorem. Fleury's algorithm for Eulerian trails. Hamilton cycles, Chinese-postman problem, approximate solutions of traveling salesman problem. Closest neighbour algorithm.

Lab Practice Problems: Verifications of logical statements, truth table, tautology. Recursive algorithms. Graph problems, degree, shortest path algorithm, Euler's algorithm and closest neighbour algorithm.

Textbook(s)
Kenneth H. Rosen, "Discrete Mathematics and its Applications", Tata McGraw- Hill Publishing Company Limited, New Delhi, Sixth Edition, 2007.
James Strayer, "Elementary Number Theory", Waveland Press, 2002.

Reference(s)
R.P. Grimaldi, "Discrete and Combinatorial Mathematics", Pearson Education, Fifth Edition, 2007.
Thomas Koshy, "Discrete Mathematics with Applications", Academic Press, 2005.
Liu, "Elements of Discrete Mathematics", Tata McGraw- Hill Publishing Company Limited , 2004.

23MAT117 – Linear Algebra

Faculty: Mr. Sapavat Bixapathi

Syllabus

Unit 1
Vector Spaces: Vector spaces - Sub spaces - Linear independence - Basis – Dimension; Inner Product Spaces: Inner products - Orthogonality - Orthogonal basis - Gram Schmidt Process - Change of basis - Orthogonal complements - Projection on subspace - Least Square Principle. QR- Decomposition.

Unit 2
Linear Transformations: Linear transformation - Relation between matrices and linear transformations - Kernel and range of a linear transformation - Change of basis - Nilpotent transformations. Symmetric and Skew Symmetric Matrices, Adjoint and Hermitian Adjoint of a Matrix, Hermitian, Unitary and Normal Transformations, Self-Adjoint and Normal Transformations.

Unit 3
Eigen values and Eigen vectors: Eigen Values and Eigen Vectors, Diagonalization, Orthogonal Diagonalization, Quadratic Forms, Diagonalizing Quadratic Forms, Conic Sections. Similarity of linear transformations - Diagonalization and its applications - Jordan form and rational canonical form. Case Studies: Applications on least square and image transformations.

Textbook(s)
Howard Anton and Chris Rorres, "Elementary Linear Algebra", Tenth Edition, John Wiley & Sons, 2010.

Reference(s)
Nabil Nassif, Jocelyne Erhel, Bernard Philippe, "Introduction to Computational Linear Algebra", CRC press, 2015.
Sheldon Axler, "Linear Algebra Done Right", Springer, 2014.
Gilbert Strang, "Linear Algebra for Learning Data", Cambridge press, 2019.
Kenneth Hoffmann and Ray Kunze, "Linear Algebra", Second Edition, Prentice Hall, 1971.
Mike Cohen, "Practical Linear Algebra for Data Science", Oreilly Publisher, 2022.

23CSE111 – Object Oriented Programming

Faculty: Dr. Balaji TK

23PHY115 – Modern Physics

Faculty: Dr. C R Kesavalu

Syllabus, Faculty & Master Time

File C:/Users/Divya/OneDrive/Desktop/UID%20lab/syllabus.html

Faculty: Dr. Balaji TK

Syllabus
Unit1
Structured to Object Oriented Approach by Examples - Object Oriented languages - Properties of Object Oriented system – UML and Object Oriented Software Development - Use case diagrams and documents as a functional model - Identifying Objects and classes - Representation of Objects and its state by Object Diagram - Simple Class using class diagram – Encapsulation - Data Hiding - Reading and Writing Objects - Class Level and Instance Level Attributes and Methods- JIVE environment for debugging.

Unit2
Aggregation and Composition using Class Diagram – Generalization using Class Diagram – Inheritance - `Constructor and Over Riding – Visibility – Attribute – Parameter – Package - Local and Global - Polymorphism – Overloading - Abstract Classes and Interfaces.

Unit3
Exception Handling - Inner Classes - Wrapper classes – String - and String Builder classes – Number – Math – Random - Array methods - File Streams - Serialization - Generics - Collection framework - Comparator and Comparable - Vector and Arraylist - Iterator and Iterable.

Textbook(s)
Y.Daniel Liang, "Introduction to Java Programming", Tenth Edition, PHI, 2013.
Grady Booch and Robert A. Maksimchuk, "Object-oriented Analysis and Design with Applications", Third Edition, Pearson Education, 2009.

Reference(s)
Naughton P. and Schildt H., "Java2 Complete Reference", Eighth Edition, Tata McGraw- Hill, 2011.
Ali Bahrami, "Object Oriented Systems Development", Second Edition, McGraw-Hill,2008.
Jaime Nino, Fredrick A Hosch, "An Introduction to Programming and Object Oriented Design using Java", Wiley India Private Limited, 2010.

Faculty: Dr. C R Kesavalu

Syllabus

Unit 1
Origin of quantum theory of radiation: Black body radiation, photo-electric effect, Compton Effect – pair production and annihilation, De-Broglie hypothesis, description of waves and wave packets,group velocities. Evidence for wave nature of particles: Davisson-Germer experiment, Heisenberguncertainty principle.

Unit 2
Atomic structure: Historical Development of atomic structures: Thomson's Model, Rutherford's Model: Scattering formula and its predictions, Atomic spectra - Bohr's Model, Sommerfield's Model, The correspondence principle, nuclear motion, and atomic excitation, Application: Lasers.

Unit 3
Quantum mechanics: Wave function, Probability density, expectation values - Schrodinger equation – time dependent and independent, Linearity and superposition, expectation values, operators, Eigen functions and Eigen values

Unit 4
Application of 1D Schrodinger Wave equation: Free particle, Particle in a box, Finite potential well,Tunnel effect, Harmonic oscillator.

Unit 5
Intro to Quantum computing- Q bits- II Quantum correlations: Bell inequalities and entanglement,Schmidt decomposition, super dense coding, teleportation. Module

23CSE113 – User Interface Design

Faculty: Dr. Rajkumar Batchu
Assisting: Mr. Barge Bharadwaj

Syllabus

Unit 1
Introduction to Internet and Web design – Working of Web – Roles of Front-end, Back-end and Full stack development – Web Server – Internet protocols – Web Hosting – HTML – HTML Tags – Create a simple Web Page – Marking up Text – Adding Links – Adding Images – SVG – Table Markup – Embedded Media - Web Based Forms – HTML Forms - CSS for Presentation - Basic Style Sheet - A CSS Style Primer - Using Style Classes - Using Style IDs - Formatting Text - Advanced Typography with CSS3 - Working with Margins, Padding, Alignment, and Floating. Responsive web design, Introduction to version control systems.

Unit 2

23MEE115 – Manufacturing Practice Lab

Faculty: Dr. Sathies S.

Syllabus

1. **Additive Manufacturing Laboratory –12 hours**

Introduction to digital manufacturing. Introduction to Additive Manufacturing - types – additive manufacturing applications - Materials for 3D printing, CAD Modelling for Additive manufacturing, Slicing and STL file generation- G code generation - 3D printing of simple geometries.

2. **Mechanical Engineering Laboratory –12 hours**

Study of tools and equipment used for basic manufacturing processes.
Manual arc welding practice for making Butt and Lap joints - Soldering Practice
Introduction to Machine Tools and Machining Processes

3. **Automation lab –12 hours**

Design, simulate and test pneumatic and electro-pneumatic circuits. Introduction to PLC –PLC programming for

Reference(s)

Naughton P. and Schildt H., "Java2 Complete Reference", Eighth Edition, Tata McGraw- Hill, 2011.
Ali Bahrami, "Object Oriented Systems Development", Second Edition, McGraw-Hill,2008.
Jaime Nino, Fredrick A Hosch, "An Introduction to Programming and Object Oriented Design using Java", Wiley India Private Limited, 2010.

Intro to Quantum computing- Q bits- II Quantum correlations: Bell inequalities and entanglement,Schmidt decomposition, super dense coding, teleportation. Module

23CSE113 – User Interface Design

Faculty: Dr. Rajkumar Batchu
Assisting: Mr. Barge Bharadwaj

Syllabus

Unit 1
Introduction to Internet and Web design – Working of Web – Roles of Front-end, Back-end and Full stack development – Web Server – Internet protocols – Web Hosting – HTML – HTML Tags – Create a simple Web Page – Marking up Text – Adding Links – Adding Images – SVG – Table Markup – Embedded Media - Web Based Forms – HTML Forms - CSS for Presentation - Basic Style Sheet - A CSS Style Primer - Using Style Classes - Using Style IDs - Formatting Text - Advanced Typography with CSS3 - Working with Margins, Padding, Alignment, and Floating. Responsive web design, Introduction to version control systems.

Unit 2
CSS Box Model and Positioning - Creating Layouts Using Modern CSS - Backgrounds and Borders - CSS Transformations and Transitions - Animating with CSS and the Canvas - Dynamic Web Pages – Web Scripting - JavaScript programming for Web Applications – Including JavaScript in HTML – HTML5 Form Controls and Validation - Document Object Model - DOM manipulation and events - Event Handlers

Unit 3
Overview of UI Frameworks – User Interface Design Concepts in Web Development – Accessibility - Introduction to Electron - Overview of Electron - Setting up an Electron project - Creating a basic desktop application with Electron - Object communication - Introduction to other popular frameworks and libraries (e.g., JavaFX, WPF, GTK).

Textbook(s)
Jennifer Kyrnin, Julie Meloni, "Sams Teach Yourself HTML, CSS, and JavaScript All in One", Third Edition, Pearson Education, Inc., 2019.

Reference(s)
Jennifer Niederst Robbin, "LEARNING WEB DESIGN A BEGINNER'S GUIDE TO HTML, CSS, JAVASCRIPT, AND WEB GRAPHICS", Fifth Edition, O'Reilly Media, Inc., 2018.
Jessica Minnick, "Responsive Web Design with HTML 5 and CSS", 9th Edition, Cengage Learning, Inc., 2021.
Electron JS.
https://www.electronjs.org/docs/latest
https://www.electronforge.io/

23MEE115 – Manufacturing Practice Lab

Faculty: Dr. Sathies S.

Syllabus

1. **Additive Manufacturing Laboratory –12 hours**

Introduction to digital manufacturing. Introduction to Additive Manufacturing - types – additive manufacturing applications - Materials for 3D printing, CAD Modelling for Additive manufacturing, Slicing and STL file generation- G code generation - 3D printing of simple geometries.

2. **Mechanical Engineering Laboratory –12 hours**

Study of tools and equipment used for basic manufacturing processes.
Manual arc welding practice for making Butt and Lap joints - Soldering Practice
Introduction to Machine Tools and Machining Processes

3. **Automation lab –12 hours**

Design, simulate and test pneumatic and electro-pneumatic circuits. Introduction to PLC –PLC programming for automation applications.

4. **Automobile Engineering lab –9 hours**

Overview of automobiles – components –functioning of various sub-systems; Power train, steering system, suspension system and braking system. Introduction to electric vehicles, hybrid vehicles, alternate fuels. Introduction to E Mobility.

Reference(s)
Lab Manual

Master Time Table CSE II Semester B Section

Syllabus, Faculty & Master Time T

File C:/Users/Divya/OneDrive/Desktop/UID%20lab/syllabus.html

Time / Day	Slot 1 08:55–09:45	Slot 2 09:45–10:35	10:35–10:45	Slot 3 10:45–11:35	Slot 4 11:35–12:25	Slot 5 12:25–01:15	01:15–02:05	Slot 6 02:10–03:00	03:00–03:10	03:10–04:00	04:00–04:50
Monday	23MAT117 Linear Algebra LAB (BYOD)		SHORT BREAK	LIBRARY	23PHY115 Modern Physics	LIBRARY	LUNCH BREAK	23MEE115 Manufacturing Practice LAB	SHORT BREAK	23MEE115 Manufacturing Practice LAB	
Tuesday	23MAT116 Discrete Mathematics	23MAT117 Linear Algebra		23PHY115 Modern Physics	23CSE111 Object Oriented Programming	23CSE113 User Interface Design		Library/Sports		22ADM111 Glimpses of Glorious India	
Wednesday	23CSE111 OOPS Lab			23MAT116 Discrete Mathematics	23CSE113 User Interface Design	22ADM111 Glimpses of Glorious India		COUNSELLING		Library/Sports	
Thursday	23MAT117 Linear Algebra	23CSE111 Object Oriented Programming		23MAT116 Discrete Mathematics	COUNSELLING	LIBRARY		23PHY115 Modern Physics (T)		Library/Sports	
Friday	23CSE113 User Interface Design Lab BYOD			23MAT117 Linear Algebra	23CSE111 Object Oriented Programming	Library/Sports		22ADM111 Glimpses of Glorious India (P)		23MAT116 Discrete Mathematics Lab	

Course Code	Course Name	L-T-P	Credits	Faculty Name	Assisting Faculty
23MAT116	Discrete Mathematics	3-0-2	4	Dr. Srivasa Rao Thota	
23MAT117	Linear Algebra	3-0-2	4	Mr. Sapavat Bixapathi	
23CSE111	Object Oriented Programming	3-0-2	4	Dr. Balaji TK	
23PHY115	Modern Physics	2-1-0	3	Dr. C R Kesavalu	
23CSE113	User Interface Design	2-0-2	3	Dr. Rajkumar Batchu	Mr. Barge Bharadwaj
23MEE115	Manufacturing Practice	0-0-3	1	Dr. Sathies S.	
22ADM111	Glimpses of Glorious India	2-0-1	2	Dr. Siva Panuganti	

Explanation of the tags:

- : is used as a container to group content like gallery and cards.
- <img> : tag is used to display syllabus images using the src attribute.
- CSS classes like .gallery, .card, .title, .faculty, and .break are introduced for styling.
- display : grid is used to create a two-column gallery layout.
- margin : auto centers the content on the page.
- border-radius is used to give rounded corners to cards and images.
- border-collapse : collapse makes the table borders neat.
- font-family changes the text style of the whole page.
- Combined selector td, th applies common styles.
- HTML comments <!-- --> are used to organize the code into sections.

WEEK -4

1 . <u>Aim :</u> A college wants to collect student details through an online admission form design a registration form using only html tags(no css) with propern labels table alignment,background color and borders

<u>Procedure :</u>

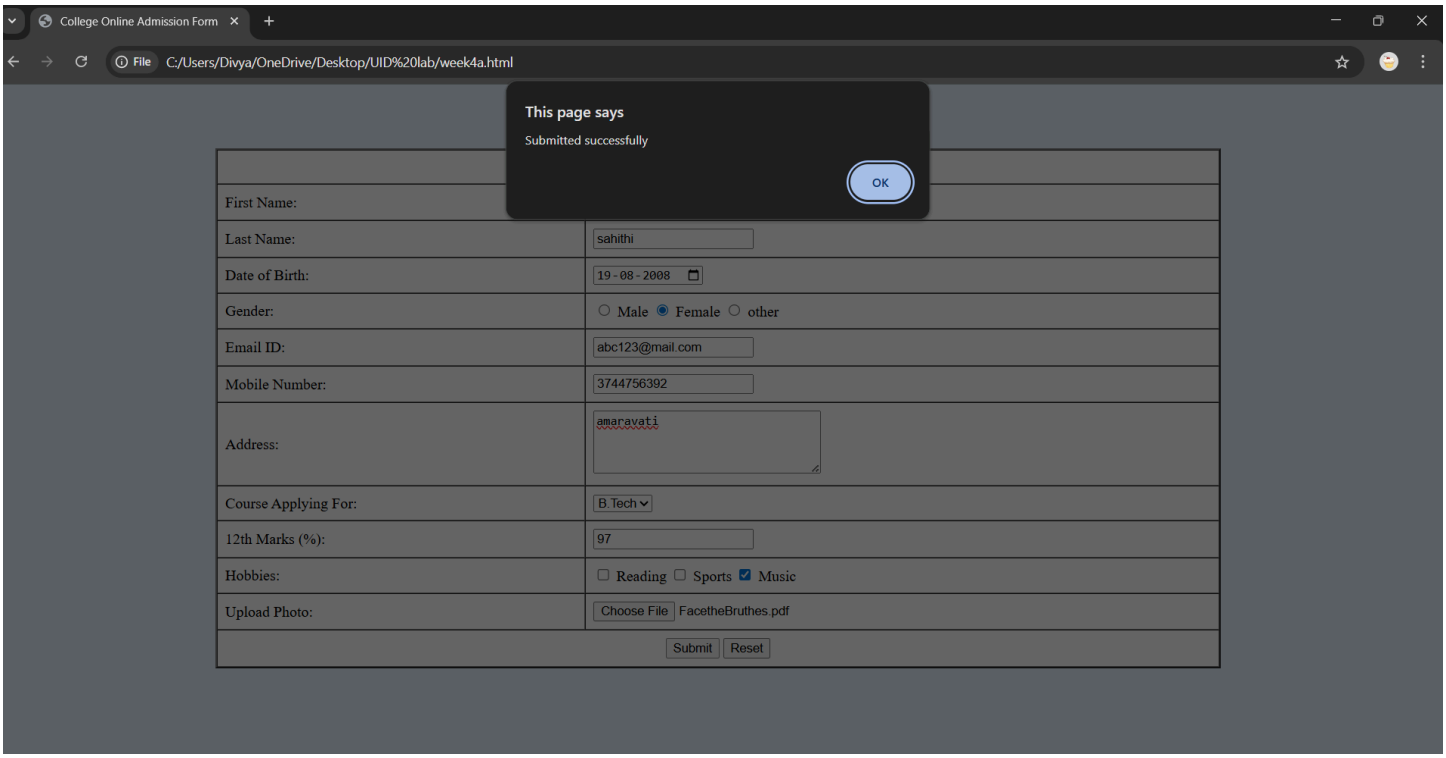
```
 <!DOCTYPE html>
<html>
<head>
  <title>College Online Admission Form</title>
</head>
<body bgcolor="#e6f2ff">
  <h2 align="center">COLLEGE ONLINE ADMISSION FORM</h2>
  <form>
    <table border="2" align="center" cellpadding="8" cellspacing="0" width="70%" bgcolor="#ffffff">
      <tr>
        <td colspan="2" align="center"><b>Student Personal Details</b></td>
      </tr>
      <tr>
        <td><label for="fname">First Name:</label></td>
        <td><input type="text" id="fname" name="fname"></td>
      </tr>
```

```
<tr>
        <td><label for="lname">Last Name:</label></td>
        <td><input type="text" id="lname" name="lname"></td>
    </tr>
    <tr>
        <td><label for="dob">Date of Birth:</label></td>
        <td><input type="date" id="dob" name="dob"></td>
    </tr>
    <tr>
        <td><label>Gender:</label></td>
        <td>
            <input type="radio" name="gender"> Male
            <input type="radio" name="gender"> Female
            <input type="radio" name="gender"> other
        </td>
    </tr>
    <tr>
        <td><label for="email">Email ID:</label></td>
        <td><input type="email" id="email" name="email"></td>
    </tr>
    <tr>
        <td><label for="phone">Mobile Number:</label></td>
        <td><input type="tel" id="phone" name="phone"></td>
    </tr>
```

```
<tr>
    <td><label for="address">Address:</label></td>
    <td><textarea id="address" name="address" rows="4" cols="30"></textarea></td>
</tr>
<tr>
    <td><label for="course">Course Applying For:</label></td>
    <td>
        <select id="course" name="course">
            <option>B.Tech</option>
            <option>B.Sc</option>
            <option>B.Com</option>
            <option>BCA</option>
            <option>MCA</option>
        </select>
    </td>
</tr>
<tr>
    <td><label for="marks">12th Marks (%):</label></td>
    <td><input type="number" id="marks" name="marks"></td>
</tr>
<tr>
    <td><label>Hobbies:</label></td>
    <td>
```

```
<input type="checkbox"> Reading

            <input type="checkbox"> Sports

            <input type="checkbox"> Music

          </td>

        </tr>

        <tr>

          <td><label for="photo">Upload Photo:</label></td>

          <td><input type="file" id="photo" name="photo"></td>

        </tr>

        <tr>

          <td colspan="2" align="center">

             <button type="button" onclick="alert('Submitted successfully')">

               Submit

               </button>

            <input type="reset" value="Reset">

          </td>

        </tr>

      </table>

   </form>

</body>

</html>
```

Output:



Explanation of the tags:

- <form> – Collects user input
- colspan – Merges two columns into one.
- <label for> – Labels input fields.
- <input> – Takes user input (text, date, radio, email, tel, number, file, reset).
- <textarea> – Multi-line text input.
- <select> & <option> – Dropdown list.
- checkbox – Multiple selections.
- <button onclick> – Shows alert message.
- Attributes: id, name, align, bgcolor, rows, cols, border, width – control layout and identification.

2 . **AIM:** A Company wants to design a webpage that display two different forms side by side using iframes in which one should display a login form and other should display register form

Program :

<_____login form_____>

```
<!DOCTYPE html>
<html>
<head>
  <title>Login Form</title>
</head>
<body bgcolor="#e6f2ff">
  <h2 align="center">Login Form</h2>

  <form align="center">
    <table border="1" cellpadding="8" align="center">
      <tr>
        <td>Username:</td>
        <td><input type="text" name="uname"></td>
      </tr>
      <tr>
        <td>Password:</td>
        <td><input type="password" name="pass"></td>
      </tr>
      <tr>
```

```
    <td colspan="2" align="center">
                <input type="submit" value="Login">
            </td>
        </tr>
    </table>
  </form>
</body>
</html>
```

<_____Register form_____>

```
<!DOCTYPE html>
<html>
<head>
  <title>Register Form</title>
</head>
<body bgcolor="#fff0e6">
  <h2 align="center">Register Form</h2>
  <form align="center">
    <table border="1" cellpadding="8" align="center">
      <tr>
        <td>Full Name:</td>
        <td><input type="text" name="fname"></td>
      </tr>
      <tr>
        <td>Email:</td>
```

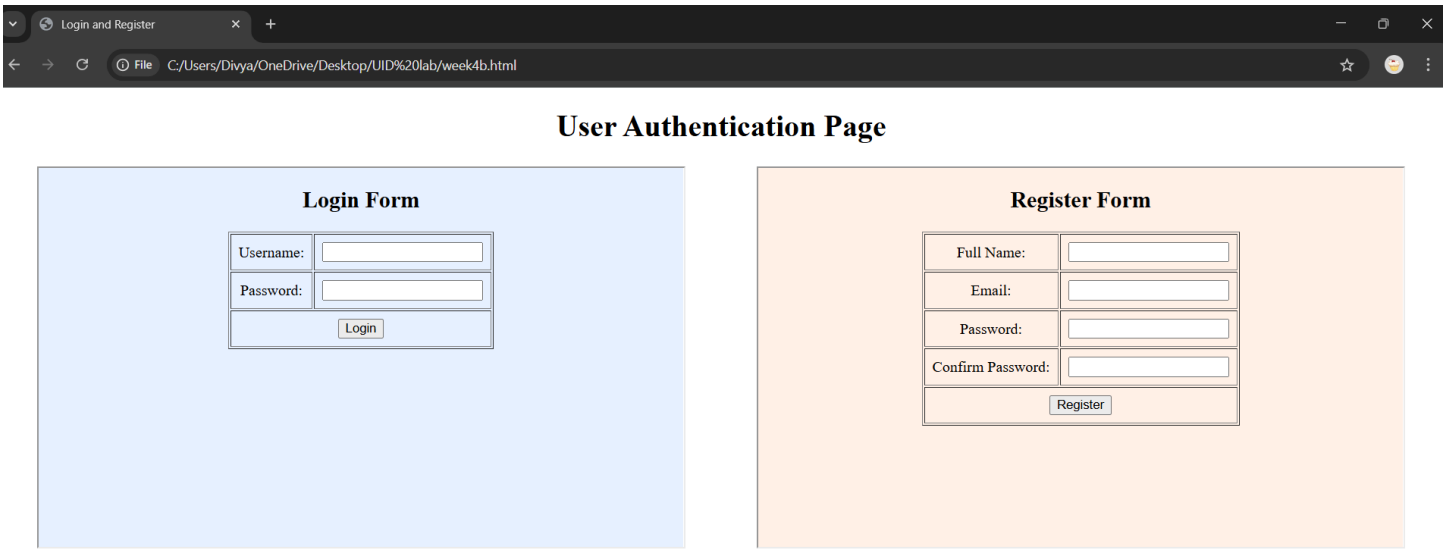
```
  </head>
<body>
 <td><input type="email" name="email"></td>
        </tr>
        <tr>
            <td>Password:</td>
            <td><input type="password" name="pass"></td>
        </tr>
        <tr>
            <td>Confirm Password:</td>
            <td><input type="password" name="cpass"></td>
        </tr>
        <tr>
            <td colspan="2" align="center">
                <input type="submit" value="Register">
            </td>
        </tr>
      </table>
   </form>
</body>
</html>
```

<_____Main page_____>

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

```
  <head>
  <title>Login and Register</title>
<h1 align="center">User Authentication Page</h1>
  <table width="100%">
    <tr>
      <td width="50%" align="center">
        <iframe src="login.html" width="90%" height="400"></iframe>
      </td>
      <td width="50%" align="center">
        <iframe src="register.html" width="90%" height="400"></iframe>
      </td>
    </tr>
  </table>
</body>
</html>
```

Output:



Explanation of the tags:

- **<iframe> (Inline Frame):** Displays another HTML page inside the current page.
- Two separate pages are created: **Login Form** and **Register Form**.
- A **main page** uses two iframes to show both forms **side by side**.
- **src attribute:** Specifies which page to load inside the iframe.
- **width & height:** Set the iframe size.
- A **table with two columns** is used to align the iframes in one row.
- Each iframe loads a different form page (login / register).

WEEK -5

1 . **Aim :** To create a responsive card layout using HTML and CSS with three cards, each containing an image, title, and button.

Procedure :

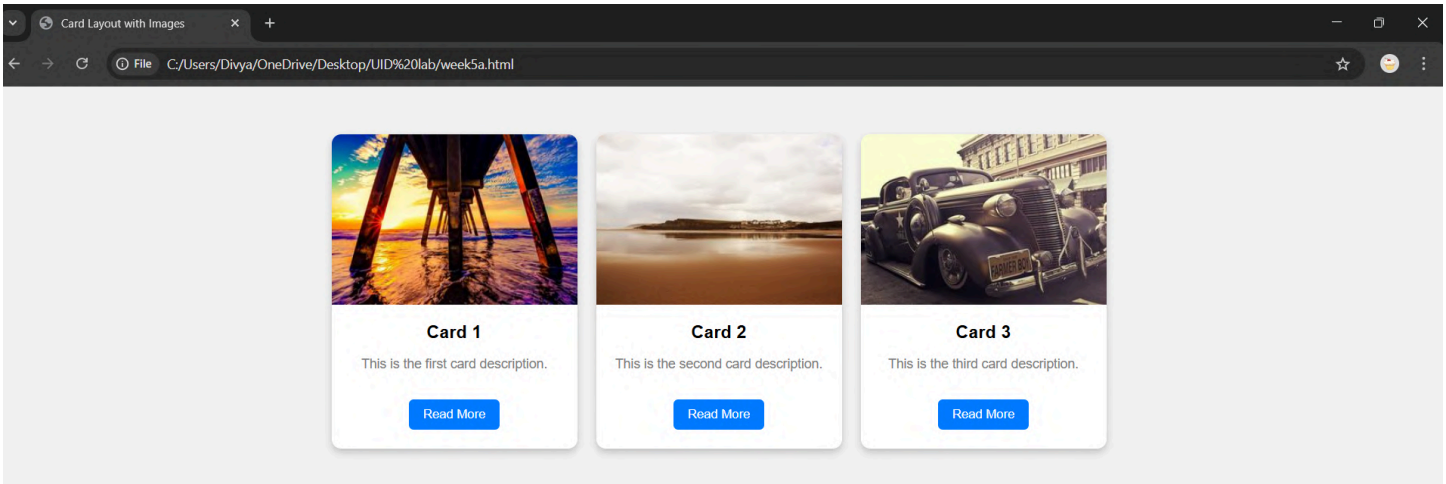
```
<!DOCTYPE html>
<html>
<head>
  <title>Card Layout with Images</title>
  <style>
    body{
      font-family: Arial, sans-serif;
      background-color: #f2f2f2;
    }
    .container{
      display: flex;
      justify-content: center;
      gap: 20px;
      margin-top: 50px;
    }
    .card{
      background-color: white;
```

```
 width: 260px;
        border-radius: 10px;
        box-shadow: 0 4px 8px rgba(0,0,0,0.2);
        overflow: hidden;
        text-align: center;
    }
    .card img{
        width: 100%;
        height: 180px;
        object-fit: cover;
    }
    .card h3{
        margin: 15px 0 10px 0;
    }
    .card p{
        font-size: 14px;
        padding: 0 15px;
        color: gray;
    }
    .card button{
        margin: 15px 0 20px 0;
padding: 8px 15px;
        border: none;
        background-color: #007bff;
```

```
color: white;
            border-radius: 5px;
            cursor: pointer;
        }
        .card button:hover{
            background-color: #0056b3;
        }
    </style>
</head>
<body>
    <div class="container">
        <div class="card">
            <img src="https://picsum.photos/300/200?1" alt="Image 1">
            <h3>Card 1</h3>
            <p>This is the first card description.</p>
            <button>Read More</button>
        </div>
        <div class="card">
            <img src="https://picsum.photos/300/200?2" alt="Image 2">
            <h3>Card 2</h3>
            <p>This is the second card description.</p>
            <button>Read More</button>
        </div>
<div class="card">
```

```
<img src="https://picsum.photos/300/200?3" alt="Image 3">

        <h3>Card 3</h3>

        <p>This is the third card description.</p>

        <button>Read More</button>

      </div>

   </div>

</body>

</html>
```

Output:



Explanation of the tags:

- flex → Align items in row
- box-shadow → Adds shadow
- border-radius → Rounded corners
- object-fit: cover → Adjust image without distortion
- :hover → Changes style when mouse is over element
- overflow: hidden → Hides extra content outside border

2.**Aim:** To design a mini website using iframe navigation links (Home, About, Contact), where clicking on each link displays the respective content within the same page using internal or external CSS.

Procedure :

<------style.css------->

```
body {
   margin: 0;
   font-family: Arial, sans-serif; }
header {
   background-color: #333;
   color: white;
   padding: 15px;
   text-align: center;  }
nav {
   background-color: #444;
   text-align: center;
   padding: 10px;   }
nav a {
   color: white;
   text-decoration: none;
   margin: 15px;
   font-size: 18px;  }
nav a:hover {
   color: yellow; }
```

```
section {
   padding: 20px; }
iframe {
   width: 100%;
   height: 400px;
   border: 2px solid #ccc; }
```

<------home.html-------->

```
<!DOCTYPE html>
<html>
<body>
   <h2>This is my Website.Here is the content of this page.</h2>
</body>
</html>
```

<-----about.html------>

```
<!DOCTYPE html>
<html>
<body>
   <h2>This page contains information about the page.</h2>
</body>
</html>
```

<-----contact.html------->

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

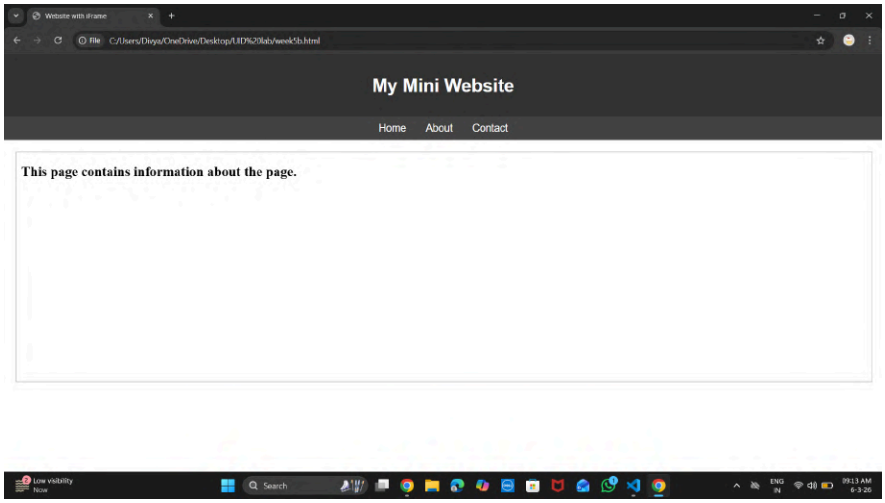
```
<body>
    <h2>if having any issues regarding this</h2>
    <p>divya@2008gmail.com</p>
    <p>phone:1234567890</p>
</body>
</html>
```

<-------5b.html------>

```
<!DOCTYPE html>
<html>
<head>
    <title> Website with iFrame</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <header>
        <h1>My Mini Website</h1>
    </header>
    <nav>
        <a href="home.html" target="contentFrame">Home</a>
        <a href="about.html" target="contentFrame">About</a>
        <a href="contact.html" target="contentFrame">Contact</a>
    </nav>
```

```
<section>

    <iframe name="contentFrame" src="home.html"></iframe>  </section></body>

</html>
```

Output:



Explanation of the tags:

<header>

- Used for top section of webpage.

<nav>

- Used for navigation links.

<section>

- Used to divide content into sections.

<a>

- Anchor tag.
- Used to create hyperlinks.
- Important attributes:
  - href → Link address
  - target → Where to open the link

<iframe>

- Used to display another webpage inside current webpage.
- Important attributes:
  - src → Page to display

3. Aim: To design an Amrita login page using HTML and CSS that displays different campuses, where clicking each campus shows its details on the same page

Procedure :

```
<!DOCTYPE html>

<html>

<head>

  <title>Amrita Login Page</title>

  <style>

    body {

      margin: 0;

      font-family: Arial, sans-serif;

      background: linear-gradient(to right,light orange, pale pink);

       background: url(https://wallpapers.com/images/hd/cool-light-blue-l6csxyf32ij7t1or.jpg) no-repeat center center/cover
  }

    /* Header */

    .header {

      background-color:lightcoral;

      color: white;

      text-align: center;

padding: 15px;

      font-size: 28px;

      font-weight: bold;      }

    /* Navigation */
```

```
.nav {
        background-color:darkcyan;
        text-align: center;
        padding: 10px;       }
    .nav button {
        background: transparent;
        border: none;
        color:lightgoldenrodyellow;
        font-size: 16px;
        margin: 0 15px;
        cursor: pointer; }
    .nav button:hover {
        text-decoration: underline;       }
    /* Main Layout */
    .container {
        display: flex;
        justify-content: center;
        align-items: flex-start;
        margin: 40px;
        gap: 40px;  }
    /* Login Box */
    .login-box {
background: linear-gradient(to bottom,darkviolet,lightcoral);
        padding: 25px;
```

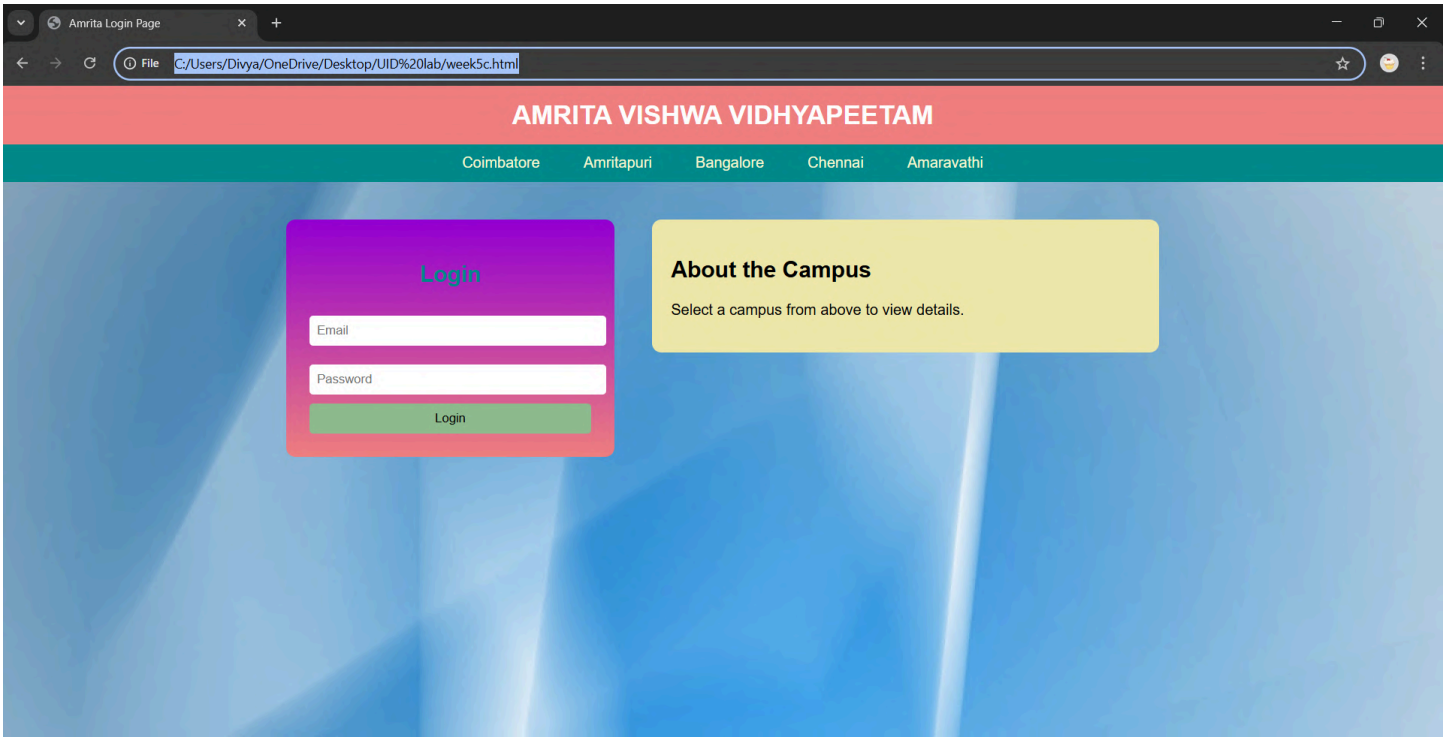
```
width: 300px;
        border-radius: 10px;
        color:darkcyan;    }
    .login-box h2 {
        text-align: center; }
    .login-box input {
        width: 100%;
        padding: 8px;
        margin: 10px 0;
        border: none;
        border-radius: 4px;}
    .login-box button {
        width: 100%;
        padding: 8px;
        background-color:darkseagreen;
        color:light turquoise;
        border: none;
        border-radius: 4px;
        cursor: pointer;}
    /* Campus Details */
    .campus-details {
background:palegoldenrod;
        width: 500px;
```

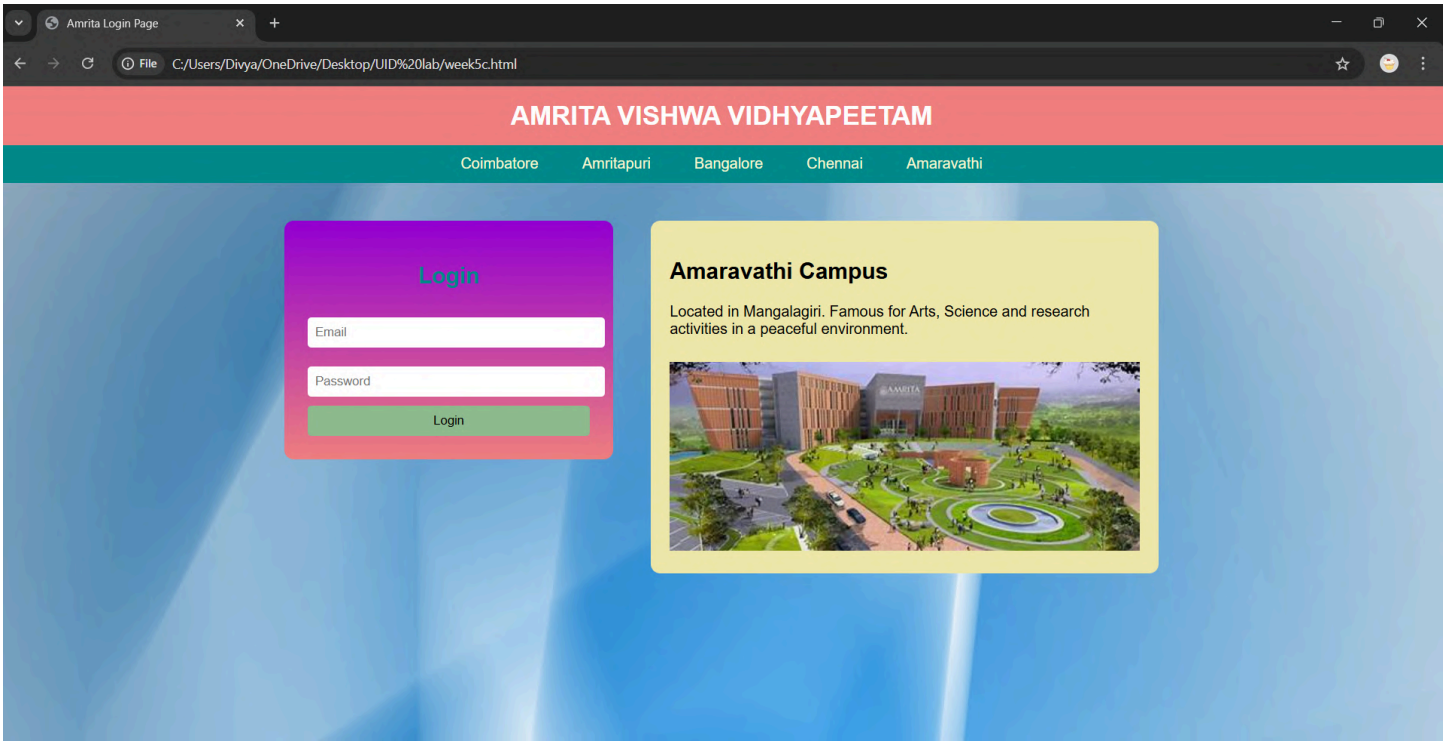
```
padding: 20px;
            border-radius: 10px;     }
        .campus-details img {
            width: 100%;
            height: 200px;
            object-fit: cover;
            margin-top: 10px;  }
    </style>
</head>
<body>
    <div class="header">
        AMRITA VISHWA VIDHYAPEETAM
    </div>
    <div class="nav">
        <button onclick="showCampus('coimbatore')">Coimbatore</button>
        <button onclick="showCampus('amritapuri')">Amritapuri</button>
        <button onclick="showCampus('bangalore')">Bangalore</button>
        <button onclick="showCampus('chennai')">Chennai</button>
        <button onclick="showCampus('Amaravathi')">Amaravathi</button>
    </div>
  <div class="container">
        <!-- Login Section -->
        <div class="login-box">
            <h2>Login</h2>
```

```
<input type="text" placeholder="Email">

        <input type="password" placeholder="Password">

        <button>Login</button>

      </div>

      <!-- Campus Info Section -->

      <div class="campus-details" id="campusInfo">

        <h2>About the Campus</h2>

        <p>Select a campus from above to view details.</p>

      </div>

    <script>

      function showCampus(campus) {

        let info = document.getElementById("campusInfo");

        if (campus === "coimbatore") {

          info.innerHTML = `

          <h2>Coimbatore Campus</h2>

          <p>Located in Tamil Nadu. Known for Engineering and Technology programs with modern infrastructure.</p>

          <img src="https://tse3.mm.bing.net/th/id/OIP.elkN6U_aVSlLuBTcPX2q_QHaEK?pid=Api&P=0&h=180"
alt="Coimbatore Campus"> `;   }

        else if (campus === "amritapuri") {

          info.innerHTML = `

          <h2>Amritapuri Campus</h2>

          <p>Located in Kerala. Famous for Arts, Science and research activities in a peaceful environment.</p>

    <img src="https://tse4.mm.bing.net/th/id/OIP.jPuLxk4ALi6yUzvKevF7fgHaEM?pid=Api&P=0&h=180" alt="Amritapuri
Campus">  `;}
```

```
else if (campus === "bangalore") {

            info.innerHTML = `

            <h2>Bangalore Campus</h2>

            <p>Located in Karnataka. Offers Engineering and Management programs with industry exposure.</p>

            <img src="https://tse4.mm.bing.net/th/id/OIP.AxDXEuEdONmn1Poym0qaiQHaDt?pid=Api&P=0&h=180"
alt="Bangalore Campus">`;           }

        else if (campus === "chennai") {

            info.innerHTML = `

            <h2>Chennai Campus</h2>

            <p>Located in Tamil Nadu. Special focus on engineering disciplines and innovation.</p>

            <img src="https://tse2.mm.bing.net/th/id/OIP.5Cd4ekgT1P_EX7zhzH_D1AHaDp?pid=Api&P=0&h=180"
alt="Chennai Campus">

            `;

        }

        else if (campus === "Amaravathi") {

            info.innerHTML = `

            <h2>Amaravathi Campus</h2>

            <p>Located in Mangalagiri. Famous for Arts, Science and research activities in a peaceful environment.</p>

            <img src="https://tse4.mm.bing.net/th/id/OIP.WIKj0_HGLKy7-vepQuwuLwHaDK?pid=Api&P=0&h=180"
alt="Amaravathi Campus">;}}



  </script>

</body>

</html>
```

Output:


Amrita Login Page
File
C:/Users/Divya/OneDrive/Desktop/UID%20lab/week5c.html
AMRITA VISHWA VIDHYAPEETAM
Coimbatore
Amritapuri
Bangalore
Chennai
Amaravathi
Login
Email
Password
Login
About the Campus
Select a campus from above to view details.


Amrita Login Page
File
C:/Users/Divya/OneDrive/Desktop/UID%20lab/week5c.html
AMRITA VISHWA VIDHYAPEETAM
Coimbatore
Amritapuri
Bangalore
Chennai
Amaravathi
Login
Email
Password
Login
Amaravathi Campus
Located in Mangalagiri. Famous for Arts, Science and research activities in a peaceful environment.

Explanation of the tags:

CSS Styling

🔹 body

- Sets background image.
- Removes margin.
- Applies font style.

🔹 .header

- Top banner.
- Background color: lightcoral.
- Center aligned white text.

🔹 .nav

- Navigation bar.
- Contains buttons for campuses.

🔹 .container

- Uses display: flex;
- Aligns login box and campus details side by side.

🔹 .login-box

- Styled login form.
- Gradient background.
- Rounded corners.

🔹 .campus-details

- Displays campus information.
- Contains heading, paragraph and image.

Navigation Buttons

```
<button onclick="showCampus('coimbatore')">Coimbatore</button>
```

- onclick calls JavaScript function.
- Sends campus name as parameter.

WEEK –6

Aim : Design a responsive e-commerce application using the grid layout. This application should contain different categories of products such as electronics,clothing, home-appliances, books. Based on the category we select corresponding products shouldbe displayed on the sidebar.

Program:

```
<!DOCTYPE html>
<html>
<head>
<title>MyShop Online Store</title>
<meta name="viewport" content="width=device-width, initial-scale=1">

<style>

body{
font-family:Arial;
margin:0;
background:#f2f2f2;
}

/* HEADER */

.header{
background:#a8f15a;
color:white;
padding:15px;
font-size:24px;
text-align:center;
}

/* LAYOUT */

.container{
display:flex;
flex-wrap:wrap;
```

```
}

/* SIDEBAR */

.sidebar{
flex:1 1 220px;
background:#aaf8fc;
padding:20px;
border-right:1px solid #ccc;
}

.sidebar h3{
margin-top:0;
}

.sidebar label{
display:block;
padding:10px;
cursor:pointer;
border-radius:4px;
}

.sidebar label:hover{
background:#eee;
}

/* RADIO BUTTONS */

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

/* PRODUCTS */

.products{
flex:4 1 600px;
display:grid;
grid-template-columns:repeat(auto-fit,minmax(220px,1fr));
gap:20px;
padding:20px;
}
```

```
.card{
background:white;
padding:15px;
border-radius:6px;
text-align:center;
box-shadow:0 2px 8px rgba(0,0,0,0.1);
transition:0.3s;
}

.card:hover{
transform:scale(1.05);
}

.card img{
width:100%;
height:180px;
object-fit:cover;
border-radius:5px;
}

.price{
color:green;
font-weight:bold;
}

.rating{
color:orange;
}

/* CATEGORY FILTER */

#electronics:checked ~ .container .products .card:not(.electronics){
display:none;
}

#men:checked ~ .container .products .card:not(.men){
display:none;
}

#women:checked ~ .container .products .card:not(.women){
display:none;
}
```

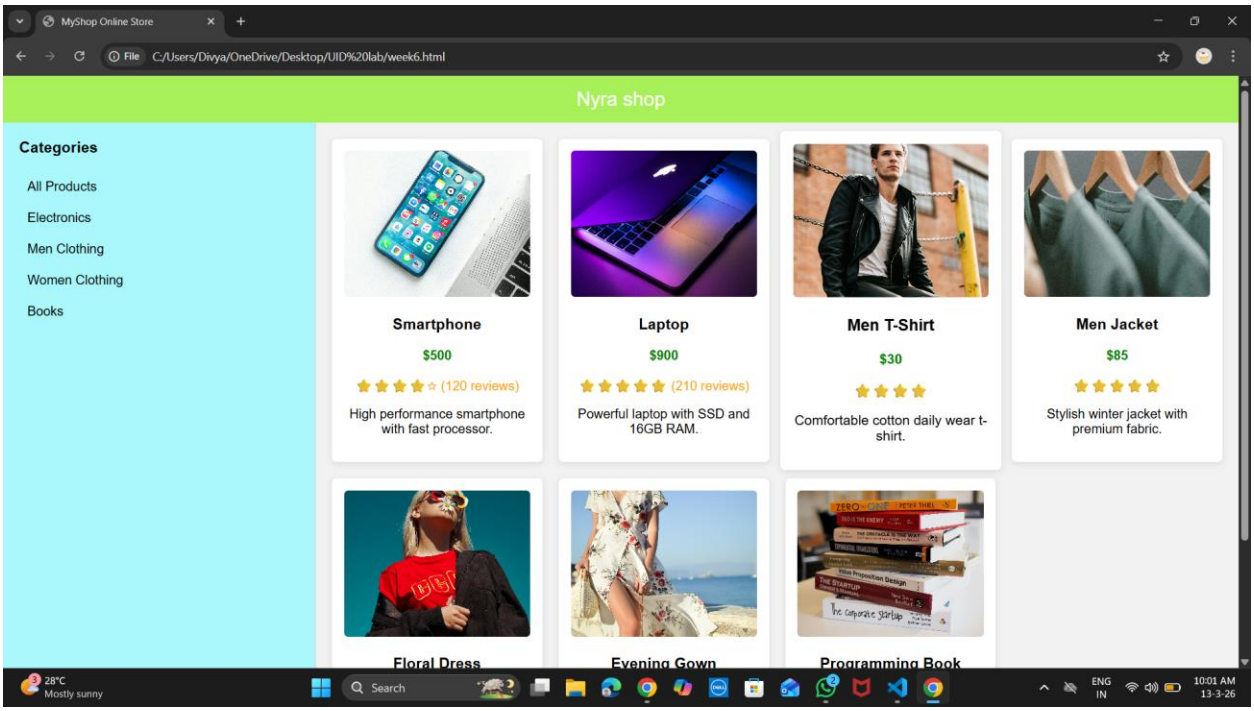
```
#books:checked ~ .container .products .card:not(.books){
display:none;
}

/* MOBILE RESPONSIVE */

@media(max-width:900px){

.products{
grid-template-columns:repeat(auto-fit,minmax(200px,1fr));
}

}

@media(max-width:768px){

.container{
flex-direction:column;
}

.sidebar{
width:100%;
border-right:none;
border-bottom:1px solid #ccc;
}

.products{
grid-template-columns:repeat(auto-fit,minmax(180px,1fr));
}

.header{
font-size:20px;
}

}

@media(max-width:480px){

.products{
grid-template-columns:1fr;
}
```

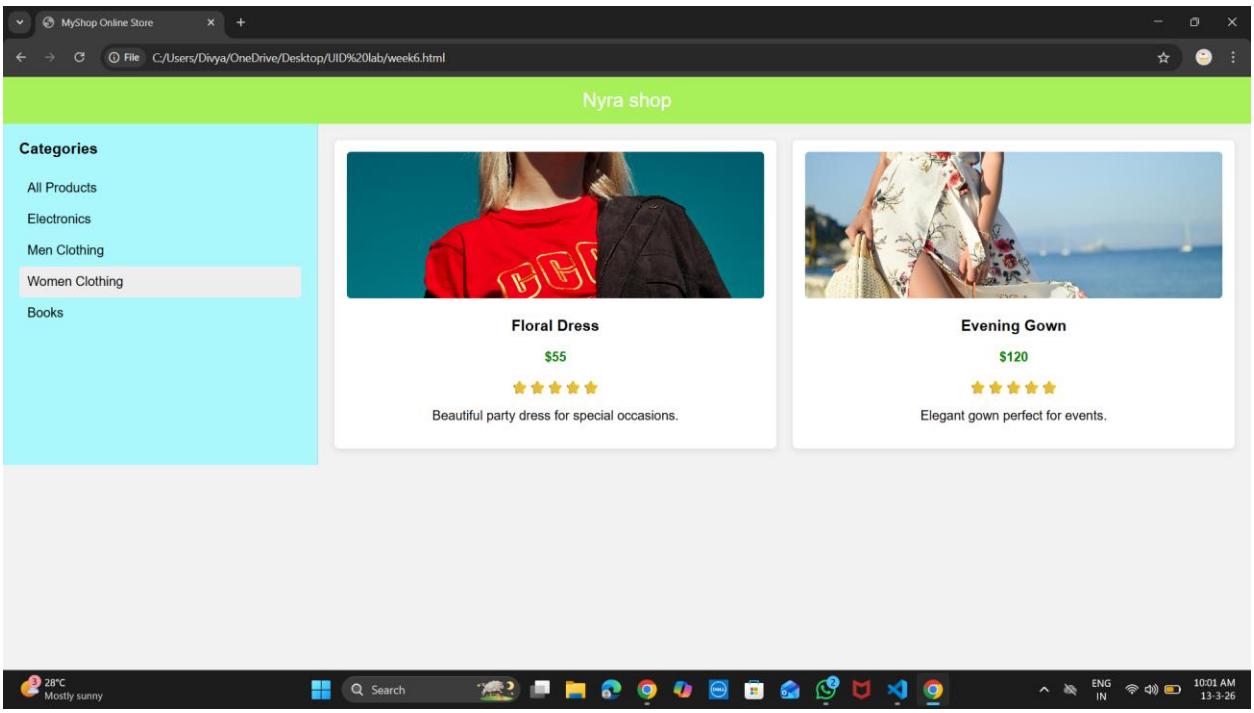
```
.card img{
height:160px;
}

}

</style>
</head>

<body>

<div class="header">
 Nyra shop
</div>

<!-- RADIO BUTTONS -->

<input type="radio" name="cat" id="all" checked>
<input type="radio" name="cat" id="electronics">
<input type="radio" name="cat" id="men">
<input type="radio" name="cat" id="women">
<input type="radio" name="cat" id="books">

<div class="container">

<!-- SIDEBAR -->

<div class="sidebar">

<h3>Categories</h3>

<label for="all">All Products</label>
<label for="electronics">Electronics</label>
<label for="men">Men Clothing</label>
<label for="women">Women Clothing</label>
<label for="books">Books</label>

</div>

<!-- PRODUCTS -->
```

```
<div class="products">

<div class="card electronics">
<img src="https://images.unsplash.com/photo-1511707171634-5f897ff02aa9">
<h3>Smartphone</h3>
<p class="price">$500</p>
<p class="rating">★★★★☆ (120 reviews)</p>
<p>High performance smartphone with fast processor.</p>
</div>

<div class="card electronics">
<img src="https://images.unsplash.com/photo-1517336714731-489689fd1ca8">
<h3>Laptop</h3>
<p class="price">$900</p>
<p class="rating">★★★★★ (210 reviews)</p>
<p>Powerful laptop with SSD and 16GB RAM.</p>
</div>

<div class="card men">
<img src="https://images.unsplash.com/photo-1520975916090-3105956dac38">
<h3>Men T-Shirt</h3>
<p class="price">$30</p>
<p class="rating">★★★★</p>
<p>Comfortable cotton daily wear t-shirt.</p>
</div>

<div class="card men">
<img src="https://images.unsplash.com/photo-1523381210434-271e8be1f52b">
<h3>Men Jacket</h3>
<p class="price">$85</p>
<p class="rating">★★★★★</p>
<p>Stylish winter jacket with premium fabric.</p>
</div>

<div class="card women">
<img src="https://images.unsplash.com/photo-1529139574466-a303027c1d8b">
<h3>Floral Dress</h3>
<p class="price">$55</p>
<p class="rating">★★★★★</p>
<p>Beautiful party dress for special occasions.</p>
</div>
```

```html
<div class="card women">
<img src="https://images.unsplash.com/photo-1496747611176-843222e1e57c">
<h3>Evening Gown</h3>
<p class="price">$120</p>
<p class="rating">★★★★★</p>
<p>Elegant gown perfect for events.</p>
</div>

<div class="card books">
<img src="https://images.unsplash.com/photo-1512820790803-83ca734da794">
<h3>Programming Book</h3>
<p class="price">$25</p>
<p class="rating">★★★★★</p>
<p>Learn programming with practical examples.</p>
</div>

</div>

</div>

</body>
</html>
```

Output:





Explanation of the tags:

- **meta>**
  The meta tag provides **additional information about the webpage**. In this program, it is used to make the webpage **responsive on mobile devices**.
- **<style>**
  This tag is used to include **CSS styling inside the HTML file**. It controls the layout, colors, fonts, and design of the webpage.
- **<body>**
  The body tag contains **all visible content of the webpage**, such as headings, images, buttons, and product details.
- ** **
  The div tag is used to **create sections or containers** in the webpage like header, sidebar, product cards, cart section, and footer.
- **<img>**
  The img tag is used to **display images** on the webpage. In this code it is used to show product images.
- **<button>**
  This tag creates **clickable buttons**, such as **Add to Cart** and **Buy Now**.