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| --- | --- |
| 1 | **1. Home page:- the static home page must contains Four frame (Fix Layout)**  **2. Top frame:- logo and University name and links to all college page and catalogue page**  **3. Navigation:-**  **4. Left frame:- all the faculty lists ex.-(faculty of science, faculty of arts, faculty of**  **commerce) if I click faculty of science than in the right frame detailed shown about**  **faculty of science**  **5. Right frame:- the pages to links in the left frame must be loaded here initially it**  **Contains the description of the website** |
| **Code:** | **Home.html**  <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Document</title>  <link rel="stylesheet" href="./css/style.css">    </head>  <body>  <section class="section">  <div class="header">  <img src="./img/cvmLogo.png" alt="logo">  <h1>THE CHARUSAT VIDHYA MANDIR UNIVERSITY</h1>  </div>  <div class="nav">  <nav>  <ul>  <li><a href="Home.html">Home</a></li>  <li><a href="Istar.html">ISTAR</a></li>  <li><a href="semcom.htm">SEMCOM</a></li>  <li><a href="nvpass.html">NVPASS</a></li>  <li><a href="adit.html">ADIT</a></li>  </ul>  </nav>  </div>  <div class="sidebar">  <h2>Faculties</h2>  <h4>Faculty of Science</h4>  <h4>Faculty of arts</h4>  <h4>Faculty of commerce</h4>  </div>  <div class="main">  <h1>Welcome to CVM University</h1>  <br>  <p style="font-size: larger;">CVM University, located in Vallabh Vidyanagar,  <p style="font-size: larger;">Gujarat, is a multi-faculty institution established in 2019 under the Charutar Vidya Mandal Trust.</p>  <p style="font-size: larger;">It offers a wide range of undergraduate, postgraduate, and doctoral programs across  various disciplines like Engineering, Science, Commerce, Law, Management, and more.</p>  <p style="font-size: larger;">The university is recognized by the University Grants Commission (UGC) and emphasizes research and innovation.</p>  </div>  <footer class="footer">  <p>@ 2025 The CVM University</p>  </footer>  </section>  </body>  </html>  Fixed.css  \*{      margin: 2px;  }  .header{      display: flex;      align-items: center;      background-color:rgb(240, 24, 60);      color:lightgrey;      font-family: Verdana, Geneva, Tahoma, sans-serif;      padding: 5px 20px;      text-align: center;  }  .header img{      width: 70px;      margin-right: 20px;      }  .header h4{        margin-left: 300px;  }  nav{      text-align: center;      font-size: large;      font-family: Verdana, Geneva, Tahoma, sans-serif;      background-color:rgb(78, 78, 236);      color: black;      padding: 15px;      margin: 10px;  }  li{      display: inline;      padding: 8px;      text-align: center;      margin: 5px;      align-items: center;    }  li a{      text-decoration: none;      color:white;  }  .sidebar a{      text-decoration: none;      font-size: larger;  }  .sidebar{        float: left;      width: 250px;      height: 380px;      background-color: rgb(209, 209, 245);      padding: 15px;      margin: 10px;      display: block;  }  .sidebar h4{      font-size: larger;      margin-left: 10px;    }  .sidebar a{      display: block;      color: black;      margin: 5px;      padding: 5px;      font-size: x-large;      font-weight: 200;  }  .main{    /\* width: 985px; 1200 - 250 - 20 (gap/margin/padding) \*/    height: 380px;    width: 1500px;    background-color:rgb(209, 209, 245);    padding: 20px;    /\* border: 1px solid; \*/    margin-left: 300px;    }  .main h1{      margin-left: 100px;  }  iframe{      width: 800px;      height: 450px;      border: none;    }  .section::after {      content: "";      display: table;      clear: both;  }  .footer {      background-color: rgb(78, 78, 236);      height: 40px;      margin: 2px;      font-size: x-large;      text-align: center;      align-items: center;      /\* Vertically center \*/      justify-content:center  }  .footer p{      /\* text-align: center; \*/      /\* display: flex; \*/      align-items: center;  }  **Output:** |
|  |  |
| **2.** | **I. ISTAR PAGE: The static ISTAR page must contain three frames. (Fix Layout)**  **🡪Top frame:- logo and collage name and links to all college page and**  **catalogue page**  **🡪Left frame:- all the Department list lists ex.-(Computer Science)**  **🡪Right frame:- the pages to links in the left frame must be loaded here**  **initially it Contains the description of the department** |
| **Code:** | **Istar.html**  <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>Document</title>      <link rel="stylesheet" href="./css/style.css">    </head>  <body>      <section class="section">          <div class="header">              <img src="./img/istarLogo.png" alt="logo">              <h1>INSTITE OF  SCIENCE & TECHNOLOGY  FOR ADVANCED STUDIES & RESEARCH</h1><br>              <!-- <img  class="img" src="./img/cvmLogo.png" alt="" style="">  -->          </div>          <div class="nav">              <nav>                  <ul>                      <li><a href="Home.html">Home</a></li>                      <li><a href="Istar.html">ISTAR</a></li>                      <li><a href="semcom.htm">SEMCOM</a></li>                      <li><a href="nvpass.html">NVPASS</a></li>                      <li><a href="adit.html">ADIT</a></li>                  </ul>              </nav>          </div>          <div class="sidebar">              <h2>Departments</h2><br>              <a href="./Frames/cs.html" target="contentFrame">Computer Science</a><br>              <a href="./Frames/os.html" target="contentFrame">M.Sc OS</a><br>              <a href="./Frames/ic.html" target="contentFrame">M.Sc IC</a><br>              <a href="./Frames/env.html" target="contentFrame">M.Sc ENV</a><br>              <a href="./Frames/gis.html" target="contentFrame">M.Sc GIS</a><br>            </div>          <div class="main">              <h1>Welcome to Istar College</h1>              <iframe name="contentFrame"></iframe>          </div>          <footer class="footer">              <p>@ 2025 The CVM University</b></p>          </footer>      </section>  </body>  </html>  **Output:** |
|  |  |
| 3. | **II. SEMCOM PAGE (Fluid Layout)**  **🡪 Top frame:- logo and collage name and links to all college page and catalogue page**  **🡪 Left frame:- all the Department list lists ex.-(Computer Science)**  **🡪 Right frame:- the pages to links in the left frame must be loaded here initially it Contains the description of the department** |
| **Code:** | **Semcom.html**  <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Document</title>  <link rel="stylesheet" href="./css/fuild.css">    </head>  <body>  <section class="section">  <div class="header">  <img src="./img/semcomLogo.png" alt="logo">  <h1>S.G.M ENGLISH MEDIUM COLLEGE OF COMMERCE AND MANAGEMENT</h1><br>  <!-- <img class="img" src="./img/cvmLogo.png" alt="" style=""> -->  </div>  <div class="nav">  <nav>  <ul>  <li><a href="Home.html">Home</a></li>  <li><a href="Istar.html">ISTAR</a></li>  <li><a href="semcom.htm">SEMCOM</a></li>  <li><a href="nvpass.html">NVPASS</a></li>  <li><a href="adit.html">ADIT</a></li>  </ul>  </nav>  </div>  <div class="sidebar">  <h2>Departments</h2><br>  <a href="./Frames/cs.html" target="contentFrame">Computer Science</a><br>  <a href="./Frames/os.html" target="contentFrame">M.Sc OS</a><br>  <a href="./Frames/ic.html" target="contentFrame">M.Sc IC</a><br>  <a href="./Frames/env.html" target="contentFrame">M.Sc ENV</a><br>  <a href="./Frames/gis.html" target="contentFrame">M.Sc GIS</a><br>    </div>  <div class="main">  <h1>Welcome to Istar College</h1>  <iframe name="contentFrame"></iframe>  </div>    </section>  <div class="footer">  <p>@ 2025 The CVM University|</p>  </div>  </body>  </html>  Fluid.css  \* {  margin: 1;  padding: 0;  box-sizing: border-box;  }  .section {  /\* border: 2px solid black; \*/  width: 100%;  padding: 0%;  }  .header {  display: flex;  align-items: center;  background-color: rgb(30, 30, 243);  color: lightgrey;  /\* font-family: Verdana, Geneva, Tahoma, sans-serif; \*/  padding: 1.5% 2%;  text-align: center;  flex-wrap: wrap;  }  .header img {  width: 6vw; /\* Responsive image \*/  max-width: 70px;  margin-right: 2vw;  }  .header h4 {  font-size:20px;  }  nav {  text-align: center;  font-family: Verdana, Geneva, Tahoma, sans-serif;  background-color: rgb(78, 78, 236);  color: black;  /\* padding: 1.5%; \*/  margin: 1%;  }  li {  display: inline-block;  padding: 1% 2%;  text-align: center;  margin: 0.5%;  }  li a {  text-decoration: none;  color: white;  font-size:large;  }  .sidebar {  float: left;  width: 22%;  /\* height: auto; \*/  background-color: rgb(209, 209, 245);  padding: 2%;  margin: 1%;  height: 64VH;  }  .sidebar h4 {  font-size: 1.5vw;  margin-left: 5%;  }  .sidebar a {  display: block;  color: black;  /\* margin: 2% 0;  padding: 1%; \*/  font-size:x-large;  font-weight: 500;  text-decoration: none;  }  .main {  width: 74%;  float: left;  height: auto;  background-color: rgb(209, 209, 245);  /\* padding: 2%;  margin: 1%; \*/  }  .main h1 {  font-size: 2vw;  margin-left: 5%;  }  iframe {  width: 100%;  height: 60vh;  border: none;  }  .section {  /\* border: 2px solid black; \*/  padding: 1%;  width: 100%;  overflow: hidden; /\* optional fix \*/  }  .section::after {  content: "";  display: table;  clear: both;  }  .footer {  background-color: rgb(78, 78, 236);  height: 8vh;  margin-top: 1%;  font-size: 1.5vw;  display: flex;  align-items: center;  justify-content: center;  clear: both;  }  .footer p {  margin: 0;  padding: 0;  font-size: inherit;  text-align: center;  } |
| **Output:** | **Semcom.html** |
|  |  |
| **4.** | **ADIT PAGE: The catalogue page should contain the details of all the books**  **available in the web site in a table. (Adaptive Layout)**  **🡪 Top frame:- logo and collage name and links to all college page and**  **catalogue page**  **🡪 Left frame:- all the Department list lists ex.-(Computer Science)**  **🡪 Right frame:- the pages to links in the left frame must be loaded here**  **initially it Contains the description of the department** |
| **Code:** | **ADIT.html**  <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>Document</title>      <link rel="stylesheet" href="./css/adaptive.css">     </head>  <body>      <section class="section">          <div class="header">              <img src="./img/NVPASSLogo.png" alt="logo">              <h2>NATUBHAI V. PATEL COLLEGE OF PURE AND APPLIED SCIENCES COBNVRET CAPITYAL</h2><br>              <!-- <img  class="img" src="./img/cvmLogo.png" alt="" style="">  -->          </div>          <div class="nav">              <img src="./img/burger-bar.png" alt="Menu" class="menu-icon">              <nav>                  <ul class="nav-list">                      <li><a href="Home.html">Home</a></li>                      <li><a href="Istar.html">ISTAR</a></li>                      <li><a href="semcom.htm">SEMCOM</a></li>                      <li><a href="nvpass.html">NVPASS</a></li>                      <li><a href="adit.html">ADIT</a></li>                  </ul>              </nav>          </div>          <div class="sidebar">              <h2>Departments</h2><br>              <a href="./Frames/cs.html" target="contentFrame">Computer Science</a><br>              <a href="./Frames/os.html" target="contentFrame">M.Sc OS</a><br>              <a href="./Frames/ic.html" target="contentFrame">M.Sc IC</a><br>              <a href="./Frames/env.html" target="contentFrame">M.Sc ENV</a><br>              <a href="./Frames/gis.html" target="contentFrame">M.Sc GIS</a><br>            </div>          <div class="main">              <h1>Welcome to NVPASS College</h1>              <iframe name="contentFrame"></iframe>          </div>        </section>      <div class="footer">          <p>@ 2025 The CVM University|</b></p>      </div>  </body>  </html>  Adaptive.css  \* {      margin: 0;      padding: 0;      box-sizing: border-box;  }  .section {      width: 100%;      padding: 1%;      overflow: hidden;  }  .section::after {      content: "";      display: table;      clear: both;  }  .header {      display: flex;      align-items: center;      background-color:rgb(240, 24, 60);        color: lightgrey;      padding: 1.5% 2%;      text-align: center;      flex-wrap: wrap;  }  .header img {      width: 6vw;      max-width: 70px;      margin-right: 2vw;  }  .header h4 {      font-size: 20px;  }  nav {      text-align: center;      font-family: Verdana, Geneva, Tahoma, sans-serif;      background-color: rgb(78, 78, 236);      color: black;      margin: 1%;  }  .menu-icon {      display: none;      width: 30px;      height: auto;      margin: 10px;      cursor: pointer;  }  .nav-list {      list-style: none;      text-align: center;      margin: 0;      padding: 0;  }  .nav-list li {      display: inline-block;      padding: 1% 2%;      margin: 0.5%;  }  .nav-list li a {      text-decoration: none;      color: white;      font-size: large;  }  li {      display: inline-block;      padding: 1% 2%;      margin: 0.5%;  }  li a {      text-decoration: none;      color: black;      font-size: large;  }  .sidebar {      float: left;      width: 22%;      background-color: rgb(209, 209, 245);      padding: 2%;      margin: 1%;      height: 64VH;  }  .sidebar h4 {      font-size: 1.5vw;      margin-left: 5%;  }  .sidebar a {      display: block;      color: black;      font-size: x-large;      font-weight: 500;      text-decoration: none;  }  .main {      float: left;      width: 74%;      background-color: rgb(209, 209, 245);      margin: 1% 0;  }  .main h1 {      font-size: 2vw;      margin-left: 5%;  }  iframe {      width: 100%;      height: 60vh;      border: none;  }  .footer {      background-color: rgb(78, 78, 236);      height: 8vh;      margin-top: 1%;      font-size: 1.5vw;      display: flex;      align-items: center;      justify-content: center;      clear: both;  }  .footer p {      margin: 0;      padding: 0;      font-size: inherit;      text-align: center;  }  /\* ======================     MEDIA QUERIES FOR ADAPTIVE LAYOUT     ====================== \*/  /\* Tablets (max-width: 992px) \*/  @media (max-width: 992px) {      .sidebar {          width: 100%;          float: none;          margin-bottom: 2%;      }      .main {          width: 100%;          float: none;      }      .sidebar h4,      .main h1 {          font-size: 4vw;      }      .sidebar a {          font-size: 3vw;      }      .header h4 {          font-size: 4vw;      }      .footer {          font-size: 3vw;      }  }  /\* Mobile phones (max-width: 600px) \*/  @media (max-width: 600px) {      nav li {          display: block;          margin: 1% 0;      }      .sidebar h4,      .main h1,      .sidebar a,      .header h4,      .footer {          font-size: 5vw;      }      .header {          flex-direction: column;          align-items: flex-start;      }      .header img {          margin: 0 0 10px 0;      }  }  @media (max-width: 600px) {      .menu-icon {          display: block;      }      .nav-list {          display: none; /\* Hide menu list \*/      }  }  **Output:** |
|  |  |
| **5.** | **MBIT PAGE (Hybrid Layout)**  **🡪 Top frame:- logo and collage name and links to all college page and**  **catalogue page**  **🡪 Left frame:- all the Department list lists ex.-(Computer Science)**  **🡪Right frame:- the pages to links in the left frame must be loaded here**  **initially it Contains the description of the department** |
| **Code:** | **ADIT.html**  <!DOCTYPE html>  <html lang="en">  <head>      <meta charset="UTF-8">      <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>Document</title>      <link rel="stylesheet" href="./css/hybrid.css">    </head>  <body>      <section class="section">          <div class="header">              <img src="./img/aditLogo.png" alt="logo">              <h1 **align**="center">A. D. PATEL INSTITUTE OF TECHNOLOGY </h1><br>              <!-- <img  class="img" src="./img/cvmLogo.png" alt="" style="">  -->          </div>          <div class="nav">              <nav>                  <ul>                      <li><a href="Home.html">Home</a></li>                      <li><a href="Istar.html">ISTAR</a></li>                      <li><a href="semcom.html">SEMCOM</a></li>                      <li><a href="nvpass.html">NVPASS</a></li>                      <li><a href="adit.html">ADIT</a></li>                  </ul>              </nav>          </div>          <div class="sidebar">              <h2>Departments</h2><br>              <a href="./Frames/cs.html" target="contentFrame">Computer Science</a><br>              <a href="./Frames/os.html" target="contentFrame">M.Sc OS</a><br>              <a href="./Frames/ic.html" target="contentFrame">M.Sc IC</a><br>              <a href="./Frames/env.html" target="contentFrame">M.Sc ENV</a><br>              <a href="./Frames/gis.html" target="contentFrame">M.Sc GIS</a><br>            </div>          <div class="main">              <h1>Welcome to ADIT College</h1>              <iframe name="contentFrame"></iframe>          </div>          <footer class="footer">              <p>@ 2025 The CVM University </p>          </footer>      </section>  </body>  </html>  Hybrid.css  \* {      margin: 0;      padding: 0;      box-sizing: border-box;  }  .section {      width: 100%;      padding: 1%;      overflow: hidden;  }  .section::after {      content: "";      display: table;      clear: both;  }  /\* HEADER \*/  .header {      display: flex;      align-items: center;      background-color:rgb(240, 24, 60);      color: lightgrey;      padding: 15px 20px;      text-align: center;      flex-wrap: wrap;      width: 100%; /\* fluid \*/  }  .header img {      width: 110px;   /\* fixed logo \*/      margin-right: 20px;  }  .header h4 {      font-size:xx-large;  }  nav {      text-align: center;      font-family: Verdana, Geneva, Tahoma, sans-serif;      background-color: rgb(78, 78, 236);      color: black;      margin: 1%;  }  .menu-icon {      display: none;      width: 30px;      height: auto;      margin: 10px;      cursor: pointer;  }  .nav-list {      list-style: none;      text-align: center;      margin: 0;      padding: 0;  }  .nav-list li {      display: inline-block;      padding: 1% 2%;      margin: 0.5%;  }  .nav-list li a {      text-decoration: none;      color: black;      font-size: large;  }  li {      display: inline-block;      padding: 1% 2%;      margin: 0.5%;  }  li a {      text-decoration: none;      color: black;      font-size: large;  }  /\* SIDEBAR (fixed width) \*/  .sidebar {      float: left;      width: 250px;  /\* FIXED width \*/      background-color: rgb(209, 209, 245);      padding: 15px;      margin: 10px;       min-height: 70vh;    }  .sidebar h4 {      font-size: 1.5vw;      margin: 10px 0;  }  .sidebar a {      display: block;      color: black;      font-size: 1.1rem;      font-weight: 500;      text-decoration: none;      margin: 8px 0;    }  /\* MAIN (fluid) \*/  .main {      float: left;      width: calc(100% - 290px); /\* fluid = full width minus sidebar \*/      background-color: rgb(209, 209, 245);      margin: 10px 0;      min-height: 60vh;      padding: 15px;  }  .main h1 {      font-size: 1.5rem;      margin: 15px 0;  }  iframe {      width: 100%;      height: 60vh;      border: none;  }  /\* FOOTER \*/  .footer {      background-color:rgb(78, 78, 236);      height: 50px;      margin-top: 10px;      font-size: 1rem;      display: flex;      align-items: center;      justify-content: center;      clear: both;      width: 100%; /\* fluid \*/  }  .footer p {      margin: 0;      padding: 0;      font-size: inherit;      text-align: center;  }  **Output:** |
|  |  |
|  | BOOTSTRAP |
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| **1.** | **Design and develop a responsive Online Bookstore website using HTML and**  **Bootstrap (with minor CSS & JavaScript for interactivity).**  **Homepage**  **🡪Display website name “Online Bookstore” at the center.**  **🡪Responsive Navbar with logo, navigation links, and search bar.**  **🡪Carousel (Banner/Promotion) for showcasing offers or featured books.**  **🡪 Jumbotron/Highlight Section for special sale or featured book.**  **🡪 Sections with different background colors: New Arrivals, Best Sellers, Featured Books.** |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <title>Online Bookstore</title>  <link href="css/bootstrap.css" rel="stylesheet" />  <script src="js/bootstrap.bundle.js"></script>  <style>  .carousel-caption {  background-color: rgba(0,0,0,0.5);  border-radius: 10px;  padding: 1rem;  }  .category-btn {  font-size: 1.1rem;  font-weight: bold;  }  </style>  </head>  <body>  <!-- Navbar -->  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">  <div class="container-fluid">  <!-- Logo -->  <a class="navbar-brand" href="#">  <img src="img/logo1.png" alt="Logo" width="40" height="40">  </a>  <!-- Title -->  <a class="navbar-brand mx-auto fs-3">BookDock</a>    <!-- Toggle button for mobile -->  <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav">  <span class="navbar-toggler-icon"></span>  </button>    <!-- Navbar Links + Search -->  <div class="collapse navbar-collapse" id="navbarNav">  <ul class="navbar-nav me-auto ms-3">  <li class="nav-item"><a class="nav-link active" href="#">Home</a></li>  <li class="nav-item"><a class="nav-link" href="about.html">About</a></li>  <li class="nav-item"><a class="nav-link" href="contact.html">Contact</a></li>  </ul>  <form class="d-flex" id="searchForm">  <input class="form-control me-2" type="search" placeholder="Search books" id="searchInput">  <button class="btn btn-outline-light" type="submit">Search</button>  </form>  </div>  </div>  </nav>  <!-- Carousel -->  <div id="bookCarousel" class="carousel slide" data-bs-ride="carousel">  <div class="carousel-inner">  <div class="carousel-item active">  <img src="img/p1.png" class="d-block w-100" style="height: 500px;" alt="Banner 1">  <div class="carousel-caption d-none d-md-block">  <h5>Big Sale on Best Sellers</h5>  <p>Get up to 50% off on popular titles.</p>  </div>  </div>  <div class="carousel-item">  <img src="img/p2.png" class="d-block w-100" style="height: 500px;" alt="Banner 2">  <div class="carousel-caption d-none d-md-block">  <h5>New Arrivals</h5>  <p>Check out the latest releases in our collection.</p>  </div>  </div>  <div class="carousel-item">  <img src="img/p3.png" class="d-block w-100" style="height: 500px;" alt="Banner 3">  <div class="carousel-caption d-none d-md-block">  <h5>Featured Books</h5>  <p>Handpicked books recommended by our experts.</p>  </div>  </div>  </div>  <button class="carousel-control-prev" type="button" data-bs-target="#bookCarousel" data-bs-slide="prev">  <span class="carousel-control-prev-icon"></span>  </button>  <button class="carousel-control-next" type="button" data-bs-target="#bookCarousel" data-bs-slide="next">  <span class="carousel-control-next-icon"></span>  </button>  </div>  <!-- Jumbotron / Highlight Section -->  <div class="p-5 mb-4 bg-light rounded-3 text-center">  <div class="container py-5">  <h1 class="display-5 fw-bold">Special Deal of the Month</h1>  <p class="fs-4">Get "Atomic Habits" at 40% off for a limited time!</p>  <button class="btn btn-primary btn-lg">Shop Now</button>  </div>  </div>  <!-- Categories -->  <div class="container mt-4">  <h2 class="text-center mb-4">Categories</h2>  <div class="row g-3 text-center">  <div class="col-6 col-md-3">  <a href="novel.html" class="btn btn-outline-primary w-100 p-4 category-btn">Novels</a>  </div>  <div class="col-6 col-md-3">  <a href="children.html" class="btn btn-outline-success w-100 p-4 category-btn">Children</a>  </div>  <div class="col-6 col-md-3">  <a href="biography.html" class="btn btn-outline-warning w-100 p-4 category-btn">Biography</a>  </div>  <div class="col-6 col-md-3">  <a href="miracle.html" class="btn btn-outline-danger w-100 p-4 category-btn">Miracle</a>  </div>  </div>  </div>  <!-- New Arrivals Section -->  <div class="container-fluid py-5" style="background-color: #7b8c9c;">  <h2 class="text-center mb-4">New Arrivals</h2>  <div class="row g-4 px-4">  <div class="col-md-4">  <div class="card h-100 shadow-sm book-card">  <div class="card-body">  <h5 class="card-title">The Midnight Library</h5>  <p class="card-text">A novel about life, regrets, and second chances.</p>  </div>  </div>  </div>  <div class="col-md-4">  <div class="card h-100 shadow-sm book-card">  <div class="card-body">  <h5 class="card-title">Atomic Habits</h5>  <p class="card-text">A guide on building good habits and breaking bad ones.</p>  </div>  </div>  </div>  <div class="col-md-4">  <div class="card h-100 shadow-sm book-card">  <div class="card-body">  <h5 class="card-title">The Silent Patient</h5>  <p class="card-text">A psychological thriller with a shocking twist.</p>  </div>  </div>  </div>  </div>  </div>  <!-- Best Sellers Section -->  <div class="container-fluid py-5" style="background-color: #7b8c9c;">  <h2 class="text-center mb-4">Best Sellers</h2>  <div class="row g-4 px-4">  <div class="col-md-4">  <div class="card h-100 shadow-sm book-card">  <div class="card-body">  <h5 class="card-title">Harry Potter Series</h5>  <p class="card-text">An epic fantasy loved across generations.</p>  </div>  </div>  </div>  <div class="col-md-4">  <div class="card h-100 shadow-sm book-card">  <div class="card-body">  <h5 class="card-title">Rich Dad Poor Dad</h5>  <p class="card-text">Financial wisdom for everyday life.</p>  </div>  </div>  </div>  <div class="col-md-4">  <div class="card h-100 shadow-sm book-card">  <div class="card-body">  <h5 class="card-title">The Alchemist</h5>  <p class="card-text">A journey of following your dreams.</p>  </div>  </div>  </div>  </div>  </div>  <!-- Featured Books Section -->  <div class="container-fluid py-5" style="background-color: #7b8c9c;">  <h2 class="text-center mb-4">Featured Books</h2>  <div class="row g-4 px-4">  <div class="col-md-4">  <div class="card h-100 shadow-sm book-card">  <div class="card-body">  <h5 class="card-title">Think Like a Monk</h5>  <p class="card-text">Practical wisdom for everyday life.</p>  </div>  </div>  </div>  <div class="col-md-4">  <div class="card h-100 shadow-sm book-card">  <div class="card-body">  <h5 class="card-title">Ikigai</h5>  <p class="card-text">Discover the Japanese secret to a long and happy life.</p>  </div>  </div>  </div>  <div class="col-md-4">  <div class="card h-100 shadow-sm book-card">  <div class="card-body">  <h5 class="card-title">Sapiens</h5>  <p class="card-text">A brief history of humankind.</p>  </div>  </div>  </div>  </div>  </div>  <!-- Footer -->  <footer class="bg-dark text-white text-center py-3">  © 2025 Online Bookstore. All rights reserved.  </footer>  <!-- Search Script -->  <script>  document.getElementById("searchForm").addEventListener("submit", function(e) {  e.preventDefault();  let input = document.getElementById("searchInput").value.toLowerCase();  let books = document.querySelectorAll(".book-card");  books.forEach(book => {  let title = book.querySelector(".card-title").innerText.toLowerCase();  let desc = book.querySelector(".card-text").innerText.toLowerCase();  if (title.includes(input) || desc.includes(input)) {  book.style.display = "block";  } else {  book.style.display = "none";  }  });  });  </script>  </body>  </html> |
| **Output:** |  |
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| 2. | **Book Categories & Listings**   * **4-Column Layout to display book categories.** * **Book Preview Cards: image, title, author, price, rating, and “Buy Now” button.** * **Responsive Book Cover Images with rounded corners.** * **Table Layout for listing books with author, description, and price.**   **Pagination for navigating book listings.** |
| **Code:** | **Novel.html**  <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Novels - Online Bookstore</title>  <link rel="stylesheet" href="css/bootstrap.css">  <script src="js/bootstrap.bundle.js"></script>  </head>  <body class="bg-light py-5">  <div class="container">  <h2 class="mb-4 text-center text-primary">Novels Collection</h2>  <div class="table-responsive">  <table class="table table-bordered table-hover align-middle">  <thead class="table-dark">  <tr>  <th>Series No</th>  <th>Book Name</th>  <th>Author</th>  <th>Price</th>  <th>Details</th>  </tr>  </thead>  <tbody>  <tr>  <td>001</td>  <td>The Alchemist</td>  <td>Paulo Coelho</td>  <td>₹399</td>  <td>  <button class="btn btn-primary btn-sm" onclick="openDetails('novels/novel1.html')">View Details</button>  </td>  </tr>  <tr>  <td>002</td>  <td>Harry Potter</td>  <td>J.K. Rowling</td>  <td>₹599</td>  <td>  <button class="btn btn-primary btn-sm" onclick="openDetails('novels/novel1.html')">View Details</button>  </td>  </tr>  <tr>  <td>003</td>  <td>Wings of Fire</td>  <td>Dr. A.P.J. Abdul Kalam</td>  <td>₹299</td>  <td>  <button class="btn btn-primary btn-sm" onclick="openDetails('novels/novel1.html')">View Details</button>  </td>  </tr>  <tr>  <td>004</td>  <td>The Midnight Library</td>  <td>Matt Haig</td>  <td>₹450</td>  <td>  <button class="btn btn-primary btn-sm" onclick="openDetails('novels/novel2.html')">View Details</button>  </td>  </tr>  <tr>  <td>005</td>  <td>Atomic Habits</td>  <td>James Clear</td>  <td>₹499</td>  <td>  <button class="btn btn-primary btn-sm" onclick="openDetails('novels/novel2.html')">View Details</button>  </td>  </tr>  <tr>  <td>006</td>  <td>The Hobbit</td>  <td>J.R.R. Tolkien's</td>  <td>₹449</td>  <td>  <button class="btn btn-primary btn-sm" onclick="openDetails('novels/novel2.html')">View Details</button>  </td>  </tr>  </tbody>  </table>  </div>  </div>  <script>  function openDetails(fileName) {  window.open(fileName, '\_blank');  }  </script>  </body>  </html> |
| **Output:** |  |
| **3.** | **Book Details**   * **Modal Popup for viewing book details or author bio.** * **Navigation Tabs for Book Info, Reviews, Author Bio.** * **Collapse/Accordion Filters for genre, ratings, price.** * **Popover for showing quick book summary.** * **Tooltips on action icons (wishlist, share, info).**   **Scrollspy to highlight active book category during scrolling.** |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8" />  <meta name="viewport" content="width=device-width, initial-scale=1" />  <title>Book Store with Cart</title>  <link href="../css/bootstrap.css" rel="stylesheet" />  <script src="../js/bootstrap.bundle.js"></script>  <style>  body { padding-top: 70px; }  .toast-container { position: fixed; top: 80px; right: 20px; z-index: 1080; }  </style>  </head>  <body>  <!-- Toast Container -->  <div class="toast-container" id="toast-container"></div>  <!-- Fixed Top Navbar -->  <nav class="navbar navbar-expand-lg navbar-dark bg-primary fixed-top">  <div class="container-fluid">  <a class="navbar-brand" href="#">Book Store</a>  <div class="dropdown ms-auto">  <button class="btn btn-outline-light" type="button" data-bs-toggle="dropdown" aria-expanded="false">  🛒 Cart <span id="cart-count" class="badge bg-danger">0</span>  </button>  <ul id="cart-dropdown" class="dropdown-menu dropdown-menu-end p-3"  style="min-width: 350px; max-height: 400px; overflow-y: auto;">  <li class="text-muted">Your cart is empty.</li>  </ul>  </div>  </div>  </nav>  <div class="container">  <h2 class="mb-4 text-center text-white bg-success p-3 rounded">Book Descriptions</h2>  <!-- Book 1 -->  <div class="row mb-5 align-items-center">  <div class="col-md-4">  <img src="../img/The\_Alchemist.jpeg" alt="The Alchemist" class="img-fluid rounded" />  </div>  <div class="col-md-8">  <h3 class="bg-success-subtle text-dark p-2 rounded">1. The Alchemist</h3>  <p>"The Alchemist," by Paulo Coelho, tells the story of Santiago...</p>  <h6><strong>Price:</strong><i>₹299</i></h6>  <div>  <button class="btn btn-primary me-2" onclick="addToCart('The Alchemist', '../img/The\_Alchemist.jpeg', 299)">🛒 Add to Cart</button>  <button class="btn btn-success" onclick="buyNow('The Alchemist', '../img/The\_Alchemist.jpeg', 299)">💳 Buy Now</button>  </div>  </div>  </div>  <!-- Book 2 -->  <div class="row mb-5 align-items-center">  <div class="col-md-4">  <img src="../img/harry\_potter.jpeg" alt="Harry Potter" class="img-fluid rounded" />  </div>  <div class="col-md-8">  <h3 class="bg-success-subtle text-dark p-2 rounded">2. Harry Potter</h3>  <p>The Harry Potter series, written by J.K. Rowling...</p>  <h6><strong>Price:</strong><i>₹499</i></h6>  <div>  <button class="btn btn-primary me-2" onclick="addToCart('Harry Potter', '../img/harry\_potter.jpeg', 499)">🛒 Add to Cart</button>  <button class="btn btn-success" onclick="buyNow('Harry Potter', '../img/harry\_potter.jpeg', 499)">💳 Buy Now</button>  </div>  </div>  </div>  <!-- Book 3 -->  <div class="row mb-5 align-items-center">  <div class="col-md-4">  <img src="../img/wings\_of\_fire.jpeg" alt="Wings of Fire" class="img-fluid rounded" />  </div>  <div class="col-md-8">  <h3 class="bg-success-subtle text-dark p-2 rounded">3. Wings of Fire</h3>  <p>"Wings of Fire" is the autobiography of A.P.J. Abdul Kalam...</p>  <h6><strong>Price:</strong><i>₹699</i></h6>  <div>  <button class="btn btn-primary me-2" onclick="addToCart('Wings of Fire', '../img/wings\_of\_fire.jpeg', 699)">🛒 Add to Cart</button>  <button class="btn btn-success" onclick="buyNow('Wings of Fire', '../img/wings\_of\_fire.jpeg', 699)">💳 Buy Now</button>  </div>  </div>  </div>  <!-- Pagination -->  <nav aria-label="Page navigation example">  <ul class="pagination justify-content-center">  <li class="page-item disabled"><a class="page-link" href="#">Previous</a></li>  <li class="page-item"><a class="page-link" href="novel1.html">1</a></li>  <li class="page-item"><a class="page-link" href="novel2.html">2</a></li>  <li class="page-item"><a class="page-link" href="novel2.html">Next</a></li>  </ul>  </nav>  </div>  <script>  let cart = [];  function addToCart(name, img, price) {  const existingItem = cart.find(item => item.name === name);  if (existingItem) existingItem.qty++;  else cart.push({ name, img, price, qty: 1 });  updateCartUI();  showToast(`${name} added to wishlist`);  }  function updateCartUI() {  const cartDropdown = document.getElementById('cart-dropdown');  const cartCount = document.getElementById('cart-count');  cartDropdown.innerHTML = '';  if (cart.length === 0) {  cartDropdown.innerHTML = '<li class="text-muted">Your cart is empty.</li>';  cartCount.textContent = 0;  return;  }  cartCount.textContent = cart.reduce((sum, item) => sum + item.qty, 0);  cart.forEach((item, index) => {  const li = document.createElement('li');  li.classList.add('mb-2');  li.innerHTML = `  <div class="d-flex align-items-center">  <img src="${item.img}" width="50" height="50" class="me-2 rounded">  <div class="flex-grow-1">  <strong>${item.name}</strong><br>  ₹${item.price} x ${item.qty} = ₹${item.price \* item.qty}  </div>  <button class="btn btn-success btn-sm ms-2" onclick="buyCartItem(${index})">💳 Buy</button>  </div>  `;  cartDropdown.appendChild(li);  });  }  function buyCartItem(index) {  const item = cart[index];  localStorage.setItem('buyItem', JSON.stringify(item));  window.location.href = 'buy.html';  }  function buyNow(name, img, price) {  const item = { name, img, price, qty: 1 };  localStorage.setItem('buyItem', JSON.stringify(item));  window.location.href = 'login.html';  }  // Toast notification function  function showToast(message) {  const toastContainer = document.getElementById('toast-container');  const toastEl = document.createElement('div');  toastEl.className = 'toast align-items-center text-white bg-dark border-0 mb-2';  toastEl.setAttribute('role', 'alert');  toastEl.setAttribute('aria-live', 'assertive');  toastEl.setAttribute('aria-atomic', 'true');  toastEl.innerHTML = `  <div class="d-flex">  <div class="toast-body">${message}</div>  <button type="button" class="btn-close btn-close-white me-2 m-auto" data-bs-dismiss="toast" aria-label="Close"></button>  </div>  `;  toastContainer.appendChild(toastEl);  const toast = new bootstrap.Toast(toastEl);  toast.show();  setTimeout(() => { toastEl.remove(); }, 3000);  }  </script>  </body>  </html> |
| **Output:** |  |
| **4.** | **User Interactions**   * **Buttons: Buy Now, Add to Wishlist, View Details.** * **Button Groups for filtering by genre.** * **Badges for cart items or review counts.** * **Progress Bar for reading completion status.** * **Alert Messages like “Added to Cart” / “Login Failed.”s** * **Toast Notification for “Book added to wishlist.”** * **Spinner on checkout/payment processing.** * **Off canvas Menu for mobile sidebar filters.** |
| **Code:** | **Buy.html**  <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Buy Book</title>  <link href="../css/bootstrap.css" rel="stylesheet">  <script src="../js/bootstrap.bundle.js"></script>  <style>  body { padding-top: 20px; background: #f8f9fa; }  .hidden { display: none; }  #orderMessage { font-weight: bold; text-align: center; color: green; margin-top: 20px; }  </style>  </head>  <body>  <div class="container">  <div class="card shadow p-4">  <h2 class="text-primary mb-4 text-center">Confirm Your Purchase</h2>  <!-- Progress Bar -->  <h5 class="text-center mb-3">Order Progress</h5>  <div class="progress mb-4">  <div id="progress-bar"  class="progress-bar progress-bar-striped progress-bar-animated bg-success"  role="progressbar"  style="width: 0%;"  aria-valuenow="0" aria-valuemin="0" aria-valuemax="100">  0%  </div>  </div>  <!-- Book Info -->  <div id="book-info" class="mb-4 text-center"></div>  <!-- Payment Section -->  <div id="payment-section">  <h4 class="mb-3 text-center">Choose Payment Method</h4>  <div class="row g-3">  <!-- PayPal -->  <div class="col-md-6">  <div class="card p-3 text-center border-primary">  <h5 class="text-primary">Pay with PayPal</h5>  <div id="paypal-button-container"></div>  </div>  </div>  <!-- Card Payment -->  <div class="col-md-6">  <div class="card p-3 text-center border-success">  <h5 class="text-success">Credit / Debit Card</h5>  <form onsubmit="payWithCard(event)">  <input type="text" class="form-control mb-2" placeholder="Card Number" required>  <input type="text" class="form-control mb-2" placeholder="MM/YY" required>  <input type="text" class="form-control mb-2" placeholder="CVV" required>  <button class="btn btn-success w-100">Pay Now</button>  </form>  </div>  </div>  <!-- UPI Payment -->  <div class="col-md-6">  <div class="card p-3 text-center border-info">  <h5 class="text-info">UPI Payment</h5>  <form onsubmit="payWithUPI(event)">  <input type="text" id="upiId" class="form-control mb-2" placeholder="Enter UPI ID" required>  <button class="btn btn-info w-100">Pay Now</button>  </form>  </div>  </div>  <!-- Cash on Delivery -->  <div class="col-md-6">  <div class="card p-3 text-center border-warning">  <h5 class="text-warning">Cash on Delivery</h5>  <button class="btn btn-warning w-100" onclick="payCOD()">Confirm COD</button>  </div>  </div>  </div>  </div>  <!-- Order Message -->  <div id="orderMessage" class="hidden"></div>  </div>  </div>  <!-- PayPal SDK -->  <script src="https://www.paypal.com/sdk/js?client-id=YOUR\_CLIENT\_ID&currency=USD"></script>  <script>  // Get book from localStorage or fallback  const buyItem = JSON.parse(localStorage.getItem('buyItem')) || {  name: "Sample Book",  price: 100,  img: "https://via.placeholder.com/200x250?text=Book+Image",  qty: 1  };  // Show book info  document.getElementById('book-info').innerHTML = `  <img src="${buyItem.img}" style="max-width:200px;" class="img-fluid mb-2">  <h3>${buyItem.name}</h3>  <p class="fs-5 text-success">Price: ₹${buyItem.price \* buyItem.qty}</p>  <p>Quantity: ${buyItem.qty}</p>  `;  // Progress bar animation  function updateProgress(target, label) {  const bar = document.getElementById("progress-bar");  let current = parseInt(bar.getAttribute("aria-valuenow"));  const interval = setInterval(() => {  if (current >= target) {  clearInterval(interval);  } else {  current++;  bar.style.width = current + "%";  bar.setAttribute("aria-valuenow", current);  bar.textContent = current + "% - " + label;  }  }, 20);  }  // Show order message and redirect  function showOrderMessage() {  updateProgress(100, "Completed");  document.getElementById('payment-section').style.display = 'none';  const orderMessage = document.getElementById('orderMessage');  orderMessage.textContent = "Thank you! Your order has been placed. Redirecting...";  orderMessage.classList.remove('hidden');  localStorage.removeItem('buyItem');  setTimeout(() => {  window.location.href = "contact\_form.html";  }, 3000);  }  // Mock payments  function payWithCard(e){ e.preventDefault(); updateProgress(66,"Processing Payment"); setTimeout(()=>{ alert("Card payment successful!"); showOrderMessage(); }, 1000); }  function payWithUPI(e){ e.preventDefault(); updateProgress(66,"Processing Payment"); const upi=document.getElementById('upiId').value; setTimeout(()=>{ alert("UPI payment successful: "+upi); showOrderMessage(); }, 1000); }  function payCOD(){ updateProgress(66,"Processing Payment"); setTimeout(()=>{ alert("COD selected!"); showOrderMessage(); }, 1000); }  // PayPal Buttons  paypal.Buttons({  createOrder: (data, actions) => actions.order.create({  purchase\_units: [{ amount: { value: buyItem.price \* buyItem.qty }, description: buyItem.name }]  }),  onApprove: (data, actions) => actions.order.capture().then(() => {  updateProgress(66,"Processing Payment");  setTimeout(()=>{ alert("PayPal payment successful!"); showOrderMessage(); }, 1000);  })  }).render('#paypal-button-container');  // Start progress at 33% (Login done)  updateProgress(33,"Login Completed");  </script>  </body>  </html> |
| **Output:** |  |
| **5.** | **Forms & User Input**  **Login & Registration Form with floating labels and validation.**  **Customer Contact Form:**   * **Input fields (Name, Email, Message).** * **Select menu for inquiry type.** * **Checkbox for newsletter subscription.** * **Radio buttons for rating feedback.**   **Search Input Group with button icon.**  **Range Slider for price filter.** |
| **Code:** | **Registraction.html**  <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Register - Online Bookstore</title>  <link href="../css/bootstrap.css" rel="stylesheet">  <script src="../js/bootstrap.bundle.js"></script>  <style>  body { background: #f8f9fa; }  .register-card { max-width: 400px; margin: 80px auto; }  </style>  </head>  <body>  <div class="container">  <div class="card register-card shadow p-4">  <h2 class="text-center text-primary mb-4">Register</h2>  <form id="registerForm">  <div class="mb-3">  <label class="form-label">Name</label>  <input type="text" id="regName" class="form-control" required>  </div>  <div class="mb-3">  <label class="form-label">Email</label>  <input type="email" id="regEmail" class="form-control" required>  </div>  <div class="mb-3">  <label class="form-label">Password</label>  <input type="password" id="regPassword" class="form-control" required>  </div>  <button type="submit" class="btn btn-success w-100">Register</button>  </form>  </div>  </div>  <script>  document.getElementById("registerForm").addEventListener("submit", function(e){  e.preventDefault();  const name = document.getElementById("regName").value;  const email = document.getElementById("regEmail").value;  const password = document.getElementById("regPassword").value;  if(name && email && password){  // Save user data in localStorage (demo)  localStorage.setItem("userName", name);  localStorage.setItem("userEmail", email);  localStorage.setItem("userPassword", password);  // mark user as logged in  localStorage.setItem("loggedIn", "true");  alert("Registration successful!");  // redirect to buy page  window.location.href = "buy.html";  } else {  alert("Please fill all fields.");  }  });  </script>  </body>  </html>  Login.html  <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1">  <title>Login - Online Bookstore</title>  <link href="../css/bootstrap.css" rel="stylesheet">  <script src="../js/bootstrap.bundle.js"></script>  <style>  body { background: #f8f9fa; }  .login-card { max-width: 400px; margin: 80px auto; }  </style>  </head>  <body>  <div class="container">  <div class="card login-card shadow p-4">  <h2 class="text-center text-primary mb-4">Login</h2>  <form id="loginForm">  <div class="mb-3">  <label class="form-label">Email</label>  <input type="email" id="email" class="form-control" required>  </div>  <div class="mb-3">  <label class="form-label">Password</label>  <input type="password" id="password" class="form-control" required>  </div>  <button type="submit" class="btn btn-primary w-100">Login</button>  </form>  </div>  </div>  <script>  document.getElementById("loginForm").addEventListener("submit", function(e) {  e.preventDefault();  // simple demo login check  const email = document.getElementById("email").value;  const password = document.getElementById("password").value;  if(email && password){  // mark user as logged in  localStorage.setItem("loggedIn", "true");  alert("Login successful!");  // after login → go to buy page  window.location.href = "buy.html";  } else {  alert("Please enter email and password.");  }  });  </script>  </body>  </html> |
| **Output:** |  |
|  |  |
|  | **Tailwind Framework** |
|  | **Introduction Of Tailwind** |
|  | • **Install Tailwind CSS in a new project and configure it properly**.    **Step2: src/inputcss**    **Step3:**    **Step4: src/index.html**  <!doctype html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link href="./output.css" rel="stylesheet">  </head>  <body>  <h1 class="text-3xl font-bold underline">  Hello world!  </h1>  </body>  </html>  **Output:** |
|  | **• Create a simple HTML page and apply at least 5 different Tailwind utility classes (e.g., text color, padding, margin, background).**  **Code:**  <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <link href="./output.css" rel="stylesheet">  <title>Personal Details</title>  </head>  <body class="bg-sky-50 p-6">  <h1 class="text-3xl text-blue-700 font-bold text-center mb-6">Personal De</h1>  <table class="table-auto border border-gray-300 mx-auto bg-white rounded-lg shadow-md">  <thead class="bg-blue-100">  <tr>  <th class="border px-4 py-2 text-left text-gray-700">Name</th>  <th class="border px-4 py-2 text-left text-gray-700">Age</th>  <th class="border px-4 py-2 text-left text-gray-700">Address</th>  </tr>  </thead>  <tbody>  <tr class="hover:bg-blue-50">  <td class="border px-4 py-2">Dhara</td>  <td class="border px-4 py-2 text-green-600">22</td>  <td class="border px-4 py-2">Anand</td>  </tr>  <tr class="hover:bg-blue-50">  <td class="border px-4 py-2">Vruchi</td>  <td class="border px-4 py-2 text-brown-600">22</td>  <td class="border px-4 py-2">Vidhya Nagar</td>  </tr>  <tr class="hover:bg-blue-50">  <td class="border px-4 py-2">Jhanvi</td>  <td class="border px-4 py-2 text-blue-600">22</td>  <td class="border px-4 py-2">Vadodara</td>  </tr>  </tbody>  </table>  </body>  </html>  **Output:** |
|  |  |
| **2.** | **Tailwind CSS Layout** |
|  | **Create a page layout where content is always cantered using container + mx-auto**   * **Create a YouTube video embed that always stays 16:9 on all devices.** * **Build a square profile picture using aspect-square.** * **Build a Pinterest-style gallery with columns-4 and gap-4** * **Create a multi-section resume where each section starts on a new page** * **(break-before-page).** * **Build a blog post with headings that force a break after (break-after).** * **Design a card grid where content doesn’t break inside (break-inside-** * **avoid).** * **Create a sticky navigation bar using sticky top-0.** * **Build a fixed footer at the bottom of the page (fixed bottom-0).** |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Tailwind CSS Layout Examples</title>  <script src="https://cdn.tailwindcss.com"></script>  </head>  <body class="bg-gray-100">  <!-- 1. Centered content using container + mx-auto -->  <section class="container mx-auto bg-white p-6 my-6 shadow rounded">  <h1 class="text-2xl font-bold text-center">Centered Content</h1>  <p class="text-center mt-2">This content is always centered using  <code>container mx-auto</code>.</p>  </section>  <!-- 2. YouTube video embed 16:9 -->  <section class="container mx-auto bg-white p-6 my-6 shadow rounded">  <h2 class="text-xl font-bold mb-4">Responsive YouTube Video (16:9)</h2>  <div class="aspect-w-16 aspect-h-9">  <iframe class="w-full h-full" src="https:[//www.youtube.com/embed/dQw4w9WgXcQ](http://www.youtube.com/embed/dQw4w9WgXcQ)" title="YouTube video" frameborder="0" allowfullscreen></iframe>  </div>  </section>  <!-- 3. Square profile picture using aspect-square -->  <section class="container mx-auto bg-white p-6 my-6 shadow rounded flex justify-center">  <div class="w-32 aspect-square rounded-full overflow-hidden">  <img src="https://via.placeholder.com/150" alt="Profile Picture" class="w- full h-full object-cover">  </div>  </section>  <!-- 4. Pinterest-style gallery -->  <section class="container mx-auto bg-white p-6 my-6 shadow rounded">  <h2 class="text-xl font-bold mb-4">Pinterest-style Gallery</h2>  <div class="columns-4 gap-4">  <div class="mb-4"><img src="https://via.placeholder.com/300x200" class="w-full rounded" /></div>  <div class="mb-4"><img src="https://via.placeholder.com/300x400" class="w-full rounded" /></div>  <div class="mb-4"><img src="https://via.placeholder.com/300x300" class="w-full rounded" /></div>  <div class="mb-4"><img src="https://via.placeholder.com/300x250" class="w-full rounded" /></div>  <div class="mb-4"><img src="https://via.placeholder.com/300x350" class="w-full rounded" /></div>  </div>  </section>  <!-- 5. Multi-section resume -->  <section class="container mx-auto bg-white p-6 my-6 shadow rounded break-before-page">  <h2 class="text-xl font-bold mb-2">Resume Section 1</h2>  <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit...</p>  </section>  <section class="container mx-auto bg-white p-6 my-6 shadow rounded break-before-page">  <h2 class="text-xl font-bold mb-2">Resume Section 2</h2>  <p>Another section starting on a new page...</p>  </section>  <!-- 6. Blog post headings with break-after -->  <section class="container mx-auto bg-white p-6 my-6 shadow rounded">  <h2 class="text-xl font-bold mb-4 break-after">Blog Post Heading 1</h2>  <p>Lorem ipsum dolor sit amet...</p>  <h2 class="text-xl font-bold mt-6 mb-4 break-after">Blog Post Heading 2</h2>  <p>More content...</p>  </section>  <!-- 7. Card grid with break-inside avoid -->  <section class="container mx-auto bg-white p-6 my-6 shadow rounded">  <h2 class="text-xl font-bold mb-4">Card Grid</h2>  <div class="grid grid-cols-3 gap-4">  <div class="bg-gray-200 p-4 rounded break-inside-avoid">Card 1 content</div>  <div class="bg-gray-200 p-4 rounded break-inside-avoid">Card 2 content</div>  <div class="bg-gray-200 p-4 rounded break-inside-avoid">Card 3 content</div>  <div class="bg-gray-200 p-4 rounded break-inside-avoid">Card 4 content</div>  </div>  </section>  <!-- 8. Sticky navigation bar -->  <nav class="bg-blue-500 text-white p-4 sticky top-0 z-50">  <ul class="flex space-x-4 justify-center">  <li>Home</li>  <li>About</li>  <li>Services</li>  <li>Contact</li>  </ul>  </nav>  <div class="h-96 bg-gray-300 flex items-center justify-center">  <p>Scroll down to see sticky nav in action</p>  </div>  <!-- 9. Fixed footer -->  <footer class="bg-blue-500 text-white p-4 fixed bottom-0 w-full text-center"> &copy; 2025 Tailwind Layout Examples  </footer>  </body>  </html> |
| **Output:** |  |
|  |  |
| **3.** | **Tailwind CSS Flexbox**   * **Create a navigation bar with menu items spaced evenly using Flexbox utilities.** * **Build a card layout where multiple cards are aligned horizontally and wrap on smaller screens.** |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8" />  <meta name="viewport" content="width=device-width, initial-scale=1" />  <title>Tailwind Navigation and Cards</title>  <link href="./output.css" rel="stylesheet" />  </head>  <body class="bg-gray-100 min-h-screen">  <nav class="bg-indigo-500 text-white p-4 shadow-lg">  <div class="container mx-auto">  <div class="flex justify-between items-center">  <div class="font-bold text-xl">Cartoon</div>  <div class="flex space-x-6">  <a href="#" class="hover:text-blue-200 transition-colors">Home</a>  <a href="#" class="hover:text-blue-200 transition-colors">Products</a>  </div>  <button class="bg-white text-indigo-500 px-4 py-2 rounded-lg font-semibold hover:bg-blue-100 transition-colors">  Sign Up  </button>  </div>  </div>  </nav>  <main class="container mx-auto py-8 px-4">  <h1 class="text-3xl font-bold text-gray-800 mb-8">Responsive Card Layout</h1>    <div class="flex flex-wrap -mx-4">  <!-- Card 1 -->  <div class="w-full md:w-1/2 lg:w-1/3 px-4 mb-8">  <div class="bg-white rounded-lg shadow-md overflow-hidden h-full">  <img src="img/p1.png" alt="Card 1" class="w-full h-58 object-cover" />  <div class="p-6">  <h2 class="text-xl font-semibold text-gray-800 mb-2">Card Title 1</h2>  <p class="text-gray-600 mb-4">This is a responsive card</p>  <button class="bg-indigo-500 text-white px-4 py-2 rounded hover:bg-indigo-500 transition-colors">Learn More</button>  </div>  </div>  </div>  <!-- Card 2 -->  <div class="w-full md:w-1/2 lg:w-1/3 px-4 mb-8">  <div class="bg-white rounded-lg shadow-md overflow-hidden h-full">  <img src="img/p2.png" alt="Card 2" class="w-full h-58 object-cover" />  <div class="p-6">  <h2 class="text-xl font-semibold text-gray-800 mb-2">Card Title 2</h2>  <p class="text-gray-600 mb-4">This is a responsive card</p>  <button class="bg-indigo-500 text-white px-4 py-2 rounded hover:bg-indigo-500 transition-colors">Learn More</button>  </div>  </div>  </div>  <!-- Card 3 -->  <div class="w-full md:w-1/2 lg:w-1/3 px-4 mb-8">  <div class="bg-white rounded-lg shadow-md overflow-hidden h-full">  <img src="img/p3.png" alt="Card 3" class="w-full h-58 object-cover" />  <div class="p-6">  <h2 class="text-xl font-semibold text-gray-800 mb-2">Card Title 3</h2>  <p class="text-gray-600 mb-4">This is responsive card</p>  <button class="bg-indigo-500 text-white px-4 py-2 rounded hover:bg-indigo-500 transition-colors">Learn More</button>  </div>  </div>  </div>  <!-- Card 4 -->  <div class="w-full md:w-1/2 lg:w-1/3 px-4 mb-8">  <div class="bg-white rounded-lg shadow-md overflow-hidden h-full">  <img src="img/p4.png" alt="Card 4" class="w-full h-58 object-cover" />  <div class="p-6">  <h2 class="text-xl font-semibold text-gray-800 mb-2">Card Title 4</h2>  <p class="text-gray-600 mb-4">This is responsive card</p>  <button class="bg-indigo-500 text-white px-4 py-2 rounded hover:bg-indigo-500 transition-colors">Learn More</button>  </div>  </div>  </div>  <!-- Card 5 -->  <div class="w-full md:w-1/2 lg:w-1/3 px-4 mb-8">  <div class="bg-white rounded-lg shadow-md overflow-hidden h-full">  <img src="img/p5.png" alt="Card 5" class="w-full h-58 object-cover" />  <div class="p-6">  <h2 class="text-xl font-semibold text-gray-800 mb-2">Card Title 5</h2>  <p class="text-gray-600 mb-4">This is responsive card</p>  <button class="bg-indigo-500 text-white px-4 py-2 rounded hover:bg-indigo-500 transition-colors">Learn More</button>  </div>  </div>  </div>  <!-- Card 6 -->  <div class="w-full md:w-1/2 lg:w-1/3 px-4 mb-8">  <div class="bg-white rounded-lg shadow-md overflow-hidden h-full">  <img src="img/p6.png" alt="Card 6" class="w-full h-58 object-cover" />  <div class="p-6">  <h2 class="text-xl font-semibold text-gray-800 mb-2">Card Title 6</h2>  <p class="text-gray-600 mb-4">This is responsive card</p>  <button class="bg-indigo-500 text-white px-4 py-2 rounded hover:bg-indigo-500 transition-colors">Learn More</button>  </div>  </div>  </div>  </div>  </main>  </body>  </html> |
| **Output:** |  |
|  |  |
| **4.** | **Tailwind CSS Grid**   * **Create a 3x3 grid gallery of images with equal spacing.** * **Design a responsive grid-based product listing page with 4 columns on large screens, 2 on medium, and 1 on small.** |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8" />  <meta name="viewport" content="width=device-width, initial-scale=1.0" />  <title>Responsive Grid Gallery</title>  <link href="./output.css" rel="stylesheet" />  </head>  <body class="bg-gray-100 p-6">  <div class="container mx-auto">  <h1 class="text-3xl font-bold mb-8 text-center">Image Gallery (3x3 Grid)</h1>  <div class="grid grid-cols-3 gap-4 mb-12">  <div class="bg-white p-2 rounded shadow">  <img src="img/t1.png" alt="Gallery Image 1" class="w-full h-auto object-cover aspect-square" />  </div>  <div class="bg-white p-2 rounded shadow">  <img src="img/t2.png" alt="Gallery Image 2" class="w-full h-auto object-cover aspect-square" />  </div>  <div class="bg-white p-2 rounded shadow">  <img src="img/t3.png" alt="Gallery Image 3" class="w-full h-auto object-cover aspect-square" />  </div>  <div class="bg-white p-2 rounded shadow">  <img src="img/t4.png" alt="Gallery Image 4" class="w-full h-auto object-cover aspect-square" />  </div>  <div class="bg-white p-2 rounded shadow">  <img src="img/t5.png" alt="Gallery Image 5" class="w-full h-auto object-cover aspect-square" />  </div>  <div class="bg-white p-2 rounded shadow">  <img src="img/t6.png" alt="Gallery Image 6" class="w-full h-auto object-cover aspect-square" />  </div>  <div class="bg-white p-2 rounded shadow">  <img src="img/t7.png" alt="Gallery Image 7" class="w-full h-auto object-cover aspect-square" />  </div>  <div class="bg-white p-2 rounded shadow">  <img src="img/t8.png" alt="Gallery Image 8" class="w-full h-auto object-cover aspect-square" />  </div>  <div class="bg-white p-2 rounded shadow">  <img src="img/t9.png" alt="Gallery Image 9" class="w-full h-auto object-cover aspect-square" />  </div>  </div>  <h1 class="text-3xl font-bold mb-8 text-center">Product Listing (Responsive Grid)</h1>  <div class="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-4 gap-6">  <div class="bg-white rounded-lg shadow-md overflow-hidden">  <img src="https://source.unsplash.com/600x400/?shampoo" alt="Product 1" class="w-full h-48 object-cover" />  <div class="p-4">  <h3 class="text-lg font-semibold mb-2">Product 1</h3>  <p class="text-gray-600 mb-2">Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>  <p class="text-blue-600 font-bold">₹200</p>  <button class="mt-3 bg-blue-500 text-white px-4 py-2 rounded hover:bg-blue-600 w-full">Add to Cart</button>  </div>  </div>  <div class="bg-white rounded-lg shadow-md overflow-hidden">  <img src="https://source.unsplash.com/600x400/?groceries" alt="Product 2" class="w-full h-48 object-cover" />  <div class="p-4">  <h3 class="text-lg font-semibold mb-2">Product 2</h3>  <p class="text-gray-600 mb-2">Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>  <p class="text-blue-600 font-bold">₹300</p>  <button class="mt-3 bg-blue-500 text-white px-4 py-2 rounded hover:bg-blue-600 w-full">Add to Cart</button>  </div>  </div>  <div class="bg-white rounded-lg shadow-md overflow-hidden">  <img src="https://source.unsplash.com/600x400/?supplements" alt="Product 3" class="w-full h-48 object-cover" />  <div class="p-4">  <h3 class="text-lg font-semibold mb-2">Product 3</h3>  <p class="text-gray-600 mb-2">Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>  <p class="text-blue-600 font-bold">₹400</p>  <button class="mt-3 bg-blue-500 text-white px-4 py-2 rounded hover:bg-blue-600 w-full">Add to Cart</button>  </div>  </div>  <div class="bg-white rounded-lg shadow-md overflow-hidden">  <img src="https://source.unsplash.com/600x400/?skincare" alt="Product 4" class="w-full h-48 object-cover" />  <div class="p-4">  <h3 class="text-lg font-semibold mb-2">Product 4</h3>  <p class="text-gray-600 mb-2">Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>  <p class="text-blue-600 font-bold">₹500</p>  <button class="mt-3 bg-blue-500 text-white px-4 py-2 rounded hover:bg-blue-600 w-full">Add to Cart</button>  </div>  </div>  <div class="bg-white rounded-lg shadow-md overflow-hidden">  <img src="https://source.unsplash.com/600x400/?herbal-products" alt="Product 5" class="w-full h-48 object-cover" />  <div class="p-4">  <h3 class="text-lg font-semibold mb-2">Product 5</h3>  <p class="text-gray-600 mb-2">Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>  <p class="text-blue-600 font-bold">₹600</p>  <button class="mt-3 bg-blue-500 text-white px-4 py-2 rounded hover:bg-blue-600 w-full">Add to Cart</button>  </div>  </div>  <div class="bg-white rounded-lg shadow-md overflow-hidden">  <img src="https://source.unsplash.com/600x400/?essential-oils" alt="Product 6" class="w-full h-48 object-cover" />  <div class="p-4">  <h3 class="text-lg font-semibold mb-2">Product 6</h3>  <p class="text-gray-600 mb-2">Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>  <p class="text-blue-600 font-bold">₹700</p>  <button class="mt-3 bg-blue-500 text-white px-4 py-2 rounded hover:bg-blue-600 w-full">Add to Cart</button>  </div>  </div>  <div class="bg-white rounded-lg shadow-md overflow-hidden">  <img src="https://source.unsplash.com/600x400/?beauty-products" alt="Product 7" class="w-full h-48 object-cover" />  <div class="p-4">  <h3 class="text-lg font-semibold mb-2">Product 7</h3>  <p class="text-gray-600 mb-2">Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>  <p class="text-blue-600 font-bold">₹800</p>  <button class="mt-3 bg-blue-500 text-white px-4 py-2 rounded hover:bg-blue-600 w-full">Add to Cart</button>  </div>  </div>  <div class="bg-white rounded-lg shadow-md overflow-hidden">  <img src="https://source.unsplash.com/600x400/?natural-cosmetics" alt="Product 8" class="w-full h-48 object-cover" />  <div class="p-4">  <h3 class="text-lg font-semibold mb-2">Product 8</h3>  <p class="text-gray-600 mb-2">Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>  <p class="text-blue-600 font-bold">₹900</p>  <button class="mt-3 bg-blue-500 text-white px-4 py-2 rounded hover:bg-blue-600 w-full">Add to Cart</button>  </div> |
| **Output:** |  |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">      <title>Product Listing</title>  <link href="css/output.css" rel="stylesheet">  </head>  <body class="bg-gray-100 p-6">  <h1 class="text-3xl font-bold mb-6 text-center">Product Listing</h1>  <div class="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-4 gap-6">  <div class="bg-white p-4 rounded shadow">  <img src="img/img1.png" class="w-full h-48 object-cover rounded mb-4" alt="Product 3">  <h2 class="text-lg font-semibold mb-2">Product 1</h2>  <p class="text-gray-700 mb-2">$29.99</p>  <button class="bg-blue-500 text-white px-4 py-2 rounded hover:bg-blue- 600">Buy Now</button>  </div>  <div class="bg-white p-4 rounded shadow">  <img  src="img/img2.png"  class="w-full h-48  object-cover  rounded mb-4" alt="Product 4">  <h2 class="text-lg font-semibold mb-2">Product 2</h2>  <p class="text-gray-700 mb-2">$59.99</p>  <button class="bg-blue-500 text-white px-4 py-2 rounded hover:bg-blue- 600">Buy Now</button>  </div>  </div>  </body>  </html> |
|  |  |
|  |  |
| **5** | **Tailwind CSS Alignment** |
|  | * **Center a login form both vertically and horizontally using alignment utilities.** |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Centered Login Form</title>  <link href="css/output.css" rel="stylesheet">  </head>  <body class="bg-gray-100 h-screen flex items-center justify-center">  <div class="bg-white p-8 rounded shadow-md w-80">  <h2 class="text-2xl font-bold mb-6 text-center">Login</h2>  <form class="space-y-4">  <input type="text" placeholder="Username" class="w-full border border-gray- 300 p-2 rounded">  <input type="password" placeholder="Password" class="w-full border border- gray-300 p-2 rounded">  <button class="w-full bg-blue-500 text-white p-2 rounded hover:bg-blue- 600">Login</button>  </form>  </div>  </body>  </html> |
| **Output:** |  |
|  | * **Create a flexbox container where one item is aligned to the top, one in the middle, and one at the bottom**. |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Flex Alignment</title>  <link href="css/output.css" rel="stylesheet"></head>  <body class="bg-gray-100 h-screen flex flex-col">  <div class="flex-1 flex flex-col justify-between max-w-md mx-auto p-6 bg-white rounded shadow">  <div class="bg-blue-200 p-4 rounded text-center">Top Item</div>  <div class="bg-green-200 p-4 rounded text-center">Middle Item</div>      <div class="bg-red-200 p-4 rounded text-center">Bottom Item</div>  </div>  </body>  </html> |
| **Output:** |  |
|  |  |
| **6** | **Tailwind CSS Effects.**   * **Build a button with a hover glow effect using shadow utilities.** |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Hover Glow Button</title>  <link href="css/output.css" rel="stylesheet">  </head>  <body class="bg-gray-100 flex items-center justify-center h-screen">  <button class="bg-blue-500  text-white  px-6  py-3  rounded shadow-md hover:shadow-xl hover:shadow-blue-400 transition duration-300">  Hover Me  </button>  </body>  </html> |
| **Output:** |  |
|  | **• Apply opacity-50 to an image and remove opacity on hover.** |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Opacity Hover Image</title>  <link href="css/output.css" rel="stylesheet">  </head>  <body class="bg-gray-100 flex items-center justify-center h-screen">  <img src="img/t2.png"  class="w-64 h-40 object-cover opacity-50 hover:opacity-100 transition duration-300 rounded shadow"  alt="Sample Image">  </body>  </html> |
| **Output:** |  |
|  | * **Create a text block with mix-blend-multiply and compare with overlay.** |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Blend Mode Text</title>  <link href="css/output.css" rel="stylesheet">  </head>  <body class="bg-gray-100 flex flex-col items-center gap-8 p-8">  <div class="relative w-80 h-40">  <img  src="img/t9.png"  class="w-full h-full  object-cover  rounded" alt="Background">  <div class="absolute inset-0 flex items-center justify-center">  <p  class="text-white text-2xl  font-bold mix-blend-multiply">Multiply Blend</p>  </div>  </div>  <div class="relative w-80 h-40">  <img  src="img/t6.png"  class="w-full h-full  object-cover  rounded" alt="Background">  <div class="absolute inset-0 flex items-center justify-center">  <p class="text-white text-2xl font-bold mix-blend-overlay">Overlay Blend</p>  </div>  </div>  </body>  </html> |
| **Output:** |  |
|  |  |
| **7** | **Tailwind CSS Filters**  **• Apply grayscale filter to an image and remove it on hover.** |
| **Code:** | <img src="d1.png"  class="w-64 h-40 object-cover grayscale hover:grayscale-0 transition duration- 300 rounded shadow"  alt="Grayscale Image"> |
| **Output:** |  |
|  | **• Create a gallery where images use blur-sm until hovered.** |
| **Code:** | <div class="flex flex-wrap gap-4">  <img  src="img/t8.png"  class="w-48 h-32  object-cover  blur-sm hover:blur-0 transition duration-300 rounded" alt="Photo 2">  <img  src="d2.png"class="w-48 h-32  object-cover  blur-sm hover:blur-0 transition duration-300 rounded" alt="Photo 3">  <img  src="img/t6.png"  class="w-48 h-32  object-cover  blur-sm hover:blur-0 transition duration-300 rounded" alt="Photo 4">  </div> |
| **Output:** |  |
|  | * **Build a section with brightness-50 background image and text on top.** |
| **Code:** | <div class="relative w-full h-64">  <img  src="d1.png"  class="w-full h-full  object-cover  brightness-50" alt="Background">  <div class="absolute inset-0 flex items-center justify-center">  <h2 class="text-white text-3xl font-bold">Overlay Text</h2>  </div>  </div> |
| **Output:** |  |
|  |  |
| **8** | **Tailwind CSS Transitions & Animations**   * **Build a div that smoothly scales up on hover (transition-transform).** * **Use animate-spin to create a loading spinner.** * **Use animate-bounce to make an arrow bounce at the bottom of a hero**   **section.**  **Create a card with fade-in effect using opacity + transition utilities.** |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Tailwind CSS Animations & Transitions</title>  <link href="./output.css" rel="stylesheet"/>  </head>  <body class="bg-gray-100 min-h-screen">  <div class="container mx-auto px-4 py-8">  <h1 class="text-3xl font-bold text-center mb-10">Tailwind CSS Animations & Transitions</h1>    <!-- Scale-up on hover section -->  <section class="mb-16">  <h2 class="text-2xl font-semibold mb-6">Scale-up on Hover</h2>  <div class="flex justify-center">  <div class="bg-blue-500 text-white p-8 rounded-lg shadow-lg transform transition-transform duration-300 hover:scale-110 cursor-pointer">  <p class="text-xl font-medium">Hover over me!</p>  <p class="mt-2">I'll smoothly scale up</p>  </div>  </div>  </section>    <!-- Loading spinner section -->  <section class="mb-16">  <h2 class="text-2xl font-semibold mb-6">Loading Spinner</h2>  <div class="flex justify-center">  <div class="animate-spin rounded-full h-16 w-16 border-t-4 border-b-4 border-purple-500"></div>  </div>  </section>    <!-- Hero section with bouncing arrow -->  <section class="mb-16 relative">  <div class="bg-gradient-to-r from-indigo-500 to-purple-600 text-white rounded-xl p-12 text-center">  <h2 class="text-3xl font-bold mb-4">Hero Section</h2>  <p class="text-xl mb-8">Scroll down to see more content</p>    <!-- Bouncing arrow at the bottom -->  <div class="absolute bottom-4 left-1/2 transform -translate-x-1/2">  <svg class="animate-bounce w-8 h-8 text-white" fill="none" stroke-linecap="round" stroke-linejoin="round" stroke-width="2" viewBox="0 0 24 24" stroke="currentColor">  <path d="M19 14l-7 7m0 0l-7-7m7 7V3"></path>  </svg>  </div>  </div>  </section>    <!-- Card with fade-in effect -->  <section class="mb-16">  <h2 class="text-2xl font-semibold mb-6">Card with Fade-in Effect</h2>  <div class="flex justify-center">  <div class="bg-white rounded-lg shadow-lg p-6 opacity-0 hover:opacity-100 transition-opacity duration-700 cursor-pointer">  <h3 class="text-xl font-bold text-gray-800 mb-2">Fade-in Card</h3>  <p class="text-gray-600">Hover over this card to see it fade in smoothly using opacity and transition utilities.</p>  <button class="mt-4 bg-green-500 hover:bg-green-600 text-white px-4 py-2 rounded transition-colors duration-300">Learn More</button>  </div>  </div>  <p class="text-center mt-4 text-gray-500">(Hover over the card above to see the effect)</p>  </section>    </div>  </body>  </html> |
| **Output:** |  |
|  |  |
| **9** | **Tailwind CSS Transforms**   * **Apply rotate-45 to an image on hover.** * **Build a card that zooms in slightly (scale-105) when hovered.** * **Use skew-x-6 to skew text for a banner.**   **Combine rotate + scale to animate an icon on hover.** |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Tailwind CSS Transform Effects</title>  <link href="./output.css" rel="stylesheet"/>  </head>  <body class="bg-gray-100 min-h-screen">  <div class="container mx-auto px-4 py-8">  <h1 class="text-3xl font-bold text-center mb-10">Tailwind CSS Transform Effects</h1>    <!-- Image with rotate-45 on hover -->  <section class="mb-16">  <h2 class="text-2xl font-semibold mb-6">Image with rotate-45 on hover</h2>  <div class="flex justify-center">  <div class="overflow-hidden rounded-lg shadow-lg">  <img src="img/p2.png" alt="Nature image"  class="w-64 h-64 object-cover transform transition-transform duration-500 hover:rotate-45">  </div>  </div>  <p class="text-center mt-4 text-gray-600">Hover over the image to see it rotate 45 degrees</p>  </section>    <!-- Card with scale-105 zoom effect on hover -->  <section class="mb-16">  <h2 class="text-2xl font-semibold mb-6">Card with scale-105 zoom effect on hover</h2>  <div class="flex justify-center">  <div class="bg-white rounded-lg shadow-lg p-6 max-w-sm transform transition-transform duration-300 hover:scale-105">  <h3 class="text-xl font-bold text-gray-800 mb-2">Zoom Card</h3>  <p class="text-gray-600 mb-4">This card zooms in slightly when you hover over it, creating a subtle interactive effect.</p>  <img src="img/p4.png" alt="Landscape" class="w-full h-40 object-cover rounded mb-4">    </div>  </div>  </section>    <!-- Banner with skew-x-6 text effect -->  <section class="mb-16">  <h2 class="text-2xl font-semibold mb-6">Banner with skew-x-6 text effect</h2>  <div class="bg-gradient-to-r from-purple-600 to-indigo-600 text-white p-8 rounded-lg">  <h3 class="text-3xl font-bold transform skew-x-6 mb-4">SPECIAL OFFER!</h3>  <p class="text-xl">Get 50% off on all products this weekend only!</p>  <button class="mt-4 bg-white text-purple-600 px-6 py-2 rounded-full font-bold hover:bg-gray-100 transition-colors duration-300">Shop Now</button>  </div>  </section>    <!-- Icon with combined rotate + scale on hover -->  <section class="mb-16">  <h2 class="text-2xl font-semibold mb-6">Icon with combined rotate + scale on hover</h2>  <div class="flex justify-center">  <div class="bg-red-200 p-8 rounded-full shadow-lg">  <svg xmlns="http://www.w3.org/2000/svg" class="h-16 w-16 text-green-500 transform transition-all duration-500 hover:rotate-180 hover:scale-125" fill="none" viewBox="0 0 24 24" stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M4 4v5h.582m15.356 2A8.001 8.001 0 004.582 9m0 0H9m11 11v-5h-.581m0 0a8.003 8.003 0 01-15.357-2m15.357 2H15" />  </svg>  </div>  </div>  <p class="text-center mt-4 text-gray-600">Hover over the refresh icon to see it rotate 180° and scale up</p>  </section>    </div>  </body>  </html> |
| **Output:** |  |
|  |  |
| **10** | **Tailwind CSS Interactivity**   * **Create a button with hover, focus, and active states.** * **Build a disabled button using disabled:opacity-50.** * **Create a div that only appears on group-hover.**   **Design a toggle switch using peer + peer-checked** |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Tailwind CSS Interactive States</title>  <link href="./output.css" rel="stylesheet"/>  </head>  <body class="bg-gray-100 min-h-screen">  <div class="container mx-auto px-4 py-8">  <h1 class="text-3xl font-bold text-center mb-10">Tailwind CSS Interactive States</h1>    <!-- Button with hover, focus, and active states -->  <section class="mb-16">  <h2 class="text-2xl font-semibold mb-6">Button with hover, focus, and active states</h2>  <div class="flex justify-center">  <button class="bg-blue-500 hover:bg-blue-600 focus:bg-blue-700 focus:ring-4 focus:ring-blue-300 focus:outline-none active:bg-blue-800 active:scale-95 text-white font-bold py-3 px-6 rounded-lg transition-all duration-200">  Interactive Button  </button>  </div>  <div class="text-center mt-4 text-gray-600">  <p>Hover: Changes to a darker blue</p>  <p>Focus: Shows a blue ring and darkens</p>  <p>Active (click): Darkens further and scales down slightly</p>  </div>  </section>    <!-- Disabled button using disabled:opacity-50 -->  <section class="mb-16">  <h2 class="text-2xl font-semibold mb-6">Disabled button using disabled:opacity-50</h2>  <div class="flex justify-center space-x-4">  <button class="bg-green-500 hover:bg-green-600 text-white font-bold py-3 px-6 rounded-lg transition-all duration-200">  Enabled Button  </button>  <button disabled class="bg-green-500 text-white font-bold py-3 px-6 rounded-lg disabled:opacity-50 disabled:cursor-not-allowed">  Disabled Button  </button>  </div>  <div class="text-center mt-4 text-gray-600">  <p>The disabled button has reduced opacity and shows a not-allowed cursor on hover</p>  </div>  </section>    <!-- Div that only appears on group-hover -->  <section class="mb-16">  <h2 class="text-2xl font-semibold mb-6">Div that only appears on group-hover</h2>  <div class="flex justify-center">  <div class="group relative w-64 h-64 bg-purple-500 rounded-lg cursor-pointer overflow-hidden">  <img src="https://cdn.oneesports.gg/cdn-data/2024/06/Anime\_SwordoftheDemonHunter\_OfficialArt-1024x576.jpg" alt="Nature" class="w-full h-full object-cover transition-opacity group-hover:opacity-70">  <div class="absolute inset-0 flex flex-col items-center justify-center p-4 bg-black bg-opacity-50 opacity-0 group-hover:opacity-100 transition-opacity duration-300">  <h3 class="text-white text-xl font-bold mb-2">Hidden Content</h3>  <p class="text-white text-center">This content only appears when you hover over the parent element</p>  <button class="mt-4 bg-white text-purple-700 px-4 py-2 rounded-lg font-bold hover:bg-gray-100">View Details</button>  </div>  </div>  </div>  <div class="text-center mt-4 text-gray-600">  <p>Hover over the image to reveal the hidden content</p>  </div>  </section>    <!-- Toggle switch using peer + peer-checked -->  <section class="mb-16">  <h2 class="text-2xl font-semibold mb-6">Toggle switch using peer + peer-checked</h2>  <div class="flex justify-center items-center space-x-4">  <span class="text-gray-700 font-medium">Off</span>    <!-- Toggle Switch -->  <label class="relative inline-flex items-center cursor-pointer">  <input type="checkbox" class="sr-only peer">  <div class="w-14 h-7 bg-gray-200 peer-focus:outline-none peer-focus:ring-4 peer-focus:ring-blue-300 rounded-full peer peer-checked:after:translate-x-full peer-checked:after:border-white after:content-[''] after:absolute after:top-0.5 after:left-[4px] after:bg-white after:border-gray-300 after:border after:rounded-full after:h-6 after:w-6 after:transition-all peer-checked:bg-blue-600"></div>  </label>    <span class="text-gray-700 font-medium">On</span>  </div>    <!-- Toggle Switch with Text Feedback -->  <div class="mt-8 flex justify-center items-center space-x-4">  <label class="relative inline-flex items-center cursor-pointer">  <input type="checkbox" class="sr-only peer">  <div class="w-14 h-7 bg-gray-200 peer-focus:outline-none peer-focus:ring-4 peer-focus:ring-green-300 rounded-full peer peer-checked:after:translate-x-full peer-checked:after:border-white after:content-[''] after:absolute after:top-0.5 after:left-[4px] after:bg-white after:border-gray-300 after:border after:rounded-full after:h-6 after:w-6 after:transition-all peer-checked:bg-green-600"></div>  </label>    <span class="text-gray-700 font-medium peer-checked:text-green-600 peer-checked:font-bold">  <span class="hidden peer-checked:inline">Feature is enabled!</span>  <span class="inline peer-checked:hidden">Feature is disabled</span>  </span>  </div>    <div class="text-center mt-8 text-gray-600">  <p>Click the toggle switches to see them change state</p>  <p>The second toggle also changes the text based on its state</p>  </div>  </section>  </div>  </body>  </html> |
| **Output:** |  |
|  |  |
| **11** | **Tailwind CSS SVG**   * **Import an SVG icon and change its size using Tailwind classes (w-6 h-6).** * **Change SVG stroke and fill colors using text-red-500 fill-current.** * **Create a navbar with SVG icons styled in different colors.**   **Build a button with an inline SVG that rotates on hover.** |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>SVG Styling with Tailwind CSS</title>  <link href="./output.css" rel="stylesheet"/>  </head>  <body class="bg-gray-100 min-h-screen p-8">  <div class="max-w-4xl mx-auto">  <h1 class="text-3xl font-bold text-center mb-10">SVG Styling with Tailwind CSS</h1>  <!-- Section 1: Import SVG icon and change its size -->  <section class="bg-white rounded-lg shadow-md p-6 mb-8">  <h2 class="text-xl font-semibold mb-4">1. SVG Icons with Different Sizes</h2>  <div class="flex flex-wrap items-center gap-8">  <div class="text-center">  <svg xmlns="http://www.w3.org/2000/svg" class="w-4 h-4 mx-auto mb-2" fill="none" viewBox="0 0 24 24" stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M5 13l4 4L19 7" />  </svg>  <p class="text-sm text-gray-600">w-4 h-4</p>  </div>  <div class="text-center">  <svg xmlns="http://www.w3.org/2000/svg" class="w-6 h-6 mx-auto mb-2" fill="none" viewBox="0 0 24 24" stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M5 13l4 4L19 7" />  </svg>  <p class="text-sm text-gray-600">w-6 h-6</p>  </div>    <div class="text-center">  <svg xmlns="http://www.w3.org/2000/svg" class="w-10 h-10 mx-auto mb-2" fill="none" viewBox="0 0 24 24" stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M5 13l4 4L19 7" />  </svg>  <p class="text-sm text-gray-600">w-10 h-10</p>  </div>    <div class="text-center">  <svg xmlns="http://www.w3.org/2000/svg" class="w-16 h-16 mx-auto mb-2" fill="none" viewBox="0 0 24 24" stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M5 13l4 4L19 7" />  </svg>  <p class="text-sm text-gray-600">w-16 h-16</p>  </div>  </div>  </section>  <!-- Section 2: Change SVG stroke and fill colors -->  <section class="bg-white rounded-lg shadow-md p-6 mb-8">  <h2 class="text-xl font-semibold mb-4">2. SVG Icons with Different Colors</h2>  <div class="flex flex-wrap items-center gap-8">  <div class="text-center">  <svg xmlns="http://www.w3.org/2000/svg" class="w-8 h-8 mx-auto mb-2" fill="none" viewBox="0 0 24 24" stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M4.318 6.318a4.5 4.5 0 000 6.364L12 20.364l7.682-7.682a4.5 4.5 0 00-6.364-6.364L12 7.636l-1.318-1.318a4.5 4.5 0 00-6.364 0z" />  </svg>  <p class="text-sm text-gray-600">Default</p>  </div>    <div class="text-center">  <svg xmlns="http://www.w3.org/2000/svg" class="w-8 h-8 mx-auto mb-2 text-red-500" fill="none" viewBox="0 0 24 24" stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M4.318 6.318a4.5 4.5 0 000 6.364L12 20.364l7.682-7.682a4.5 4.5 0 00-6.364-6.364L12 7.636l-1.318-1.318a4.5 4.5 0 00-6.364 0z" />  </svg>  <p class="text-sm text-gray-600">text-red-500</p>  </div>    <div class="text-center">  <svg xmlns="http://www.w3.org/2000/svg" class="w-8 h-8 mx-auto mb-2 text-blue-500" fill="none" viewBox="0 0 24 24" stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M4.318 6.318a4.5 4.5 0 000 6.364L12 20.364l7.682-7.682a4.5 4.5 0 00-6.364-6.364L12 7.636l-1.318-1.318a4.5 4.5 0 00-6.364 0z" />  </svg>  <p class="text-sm text-gray-600">text-blue-500</p>  </div>    <div class="text-center">  <svg xmlns="http://www.w3.org/2000/svg" class="w-8 h-8 mx-auto mb-2 text-green-500 fill-current" viewBox="0 0 24 24" stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="1" d="M4.318 6.318a4.5 4.5 0 000 6.364L12 20.364l7.682-7.682a4.5 4.5 0 00-6.364-6.364L12 7.636l-1.318-1.318a4.5 4.5 0 00-6.364 0z" />  </svg>  <p class="text-sm text-gray-600">text-green-500 fill-current</p>  </div>  </div>  </section>  <!-- Section 3: Navbar with SVG icons -->  <section class="bg-white rounded-lg shadow-md p-6 mb-8">  <h2 class="text-xl font-semibold mb-4">3. Navbar with SVG Icons</h2>  <nav class="bg-gray-800 rounded-lg">  <div class="max-w-full mx-auto px-4">  <div class="flex items-center justify-between h-16">  <div class="flex items-center">    <div class="hidden md:block">  <div class="ml-10 flex items-baseline space-x-4">  <a href="#" class="flex items-center px-3 py-2 rounded-md text-sm font-medium text-white bg-gray-900">  <svg xmlns="http://www.w3.org/2000/svg" class="h-5 w-5 mr-2 text-blue-400" fill="none" viewBox="0 0 24 24" stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M3 12l2-2m0 0l7-7 7 7M5 10v10a1 1 0 001 1h3m10-11l2 2m-2-2v10a1 1 0 01-1 1h-3m-6 0a1 1 0 001-1v-4a1 1 0 011-1h2a1 1 0 011 1v4a1 1 0 001 1m-6 0h6" />  </svg>  Home  </a>  <a href="#" class="flex items-center px-3 py-2 rounded-md text-sm font-medium text-gray-300 hover:bg-gray-700 hover:text-white">  <svg xmlns="http://www.w3.org/2000/svg" class="h-5 w-5 mr-2 text-green-400" fill="none" viewBox="0 0 24 24" stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M16 7a4 4 0 11-8 0 4 4 0 018 0zM12 14a7 7 0 00-7 7h14a7 7 0 00-7-7z" />  </svg>  Profile  </a>  <a href="#" class="flex items-center px-3 py-2 rounded-md text-sm font-medium text-gray-300 hover:bg-gray-700 hover:text-white">  <svg xmlns="http://www.w3.org/2000/svg" class="h-5 w-5 mr-2 text-yellow-400" fill="none" viewBox="0 0 24 24" stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M8 7V3m8 4V3m-9 8h10M5 21h14a2 2 0 002-2V7a2 2 0 00-2-2H5a2 2 0 00-2 2v12a2 2 0 002 2z" />  </svg>  Calendar  </a>  <a href="#" class="flex items-center px-3 py-2 rounded-md text-sm font-medium text-gray-300 hover:bg-gray-700 hover:text-white">  <svg xmlns="http://www.w3.org/2000/svg" class="h-5 w-5 mr-2 text-red-400" fill="none" viewBox="0 0 24 24" stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M15 17h5l-1.405-1.405A2.032 2.032 0 0118 14.158V11a6.002 6.002 0 00-4-5.659V5a2 2 0 10-4 0v.341C7.67 6.165 6 8.388 6 11v3.159c0 .538-.214 1.055-.595 1.436L4 17h5m6 0v1a3 3 0 11-6 0v-1m6 0H9" />  </svg>  Notifications  </a>  </div>  </div>  </div>  </div>  </div>  </nav>  </section>  <!-- Section 4: Button with rotating SVG -->  <section class="bg-white rounded-lg shadow-md p-6 mb-8">  <h2 class="text-xl font-semibold mb-4">4. Button with Rotating SVG on Hover</h2>  <div class="flex justify-center">  <button class="flex items-center px-4 py-2 bg-purple-600 text-white rounded-lg hover:bg-purple-700 transition-all duration-300 group">  <span class="mr-2">Refresh</span>  <svg xmlns="http://www.w3.org/2000/svg" class="h-5 w-5 transform group-hover:rotate-180 transition-transform duration-500" fill="none" viewBox="0 0 24 24" stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M4 4v5h.582m15.356 2A8.001 8.001 0 004.582 9m0 0H9m11 11v-5h-.581m0 0a8.003 8.003 0 01-15.357-2m15.357 2H15" />  </svg>  </button>  </div>    <div class="flex justify-center mt-6">  <button class="flex items-center px-4 py-2 bg-indigo-600 text-white rounded-lg hover:bg-indigo-700 transition-all duration-300 group">  <span class="mr-2">Settings</span>  <svg xmlns="http://www.w3.org/2000/svg" class="h-5 w-5 transform group-hover:rotate-90 transition-transform duration-300" fill="none" viewBox="0 0 24 24" stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M10.325 4.317c.426-1.756 2.924-1.756 3.35 0a1.724 1.724 0 002.573 1.066c1.543-.94 3.31.826 2.37 2.37a1.724 1.724 0 001.065 2.572c1.756.426 1.756 2.924 0 3.35a1.724 1.724 0 00-1.066 2.573c.94 1.543-.826 3.31-2.37 2.37a1.724 1.724 0 00-2.572 1.065c-.426 1.756-2.924 1.756-3.35 0a1.724 1.724 0 00-2.573-1.066c-1.543.94-3.31-.826-2.37-2.37a1.724 1.724 0 00-1.065-2.572c-1.756-.426-1.756-2.924 0-3.35a1.724 1.724 0 001.066-2.573c-.94-1.543.826-3.31 2.37-2.37.996.608 2.296.07 2.572-1.065z" />  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2" d="M15 12a3 3 0 11-6 0 3 3 0 016 0z" />  </svg>  </button>  </div>  </section>  </div>  </body>  </html> |
| **Output:** |  |
|  |  |
| **12** | **Tailwind CSS Screen Readers (Accessibility)**   * **Add a hidden label to an icon-only button using sr-only.** * **Create an accessible form where error messages are announced using aria-**   **live + sr-only.**   * **Build a navigation bar with visible menu names + extra labels for screen**   **readers.**   * **Create a “Skip to Content” link that is hidden by default but visible to screen**   **readers.** |
| **Code:** | <!DOCTYPE html>  <html lang="en">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Accessibility with Tailwind CSS</title>  <link href="./output.css" rel="stylesheet" />  <script>  function validateForm() {  const emailInput = document.getElementById('email');  const emailError = document.getElementById('email-error');  const emailLiveRegion = document.getElementById('email-live-region');  if (!emailInput.value.includes('@')) {  emailInput.setAttribute('aria-invalid', 'true');  emailError.classList.remove('hidden');  emailLiveRegion.textContent = 'Error: Please enter a valid email address.';  return false;  }  emailInput.setAttribute('aria-invalid', 'false');  emailError.classList.add('hidden');  emailLiveRegion.textContent = '';  return true;  }  </script>  </head>  <body class="bg-gray-100 min-h-screen">  <!-- Skip to content link -->  <a href="#main-content"  class="sr-only focus:not-sr-only focus:absolute focus:top-0 focus:left-0 focus:z-50 focus:p-4 focus:bg-blue-600 focus:text-white">  Skip to main content  </a>  <main id="main-content" class="max-w-6xl mx-auto px-4 py-8">  <h1 class="text-3xl font-bold mb-8">Accessibility Features with Tailwind CSS</h1>  <!-- Section 1: Icon-only buttons with sr-only labels -->  <section class="bg-white rounded-lg shadow-md p-6 mb-8">  <h2 class="text-xl font-semibold mb-4">1. Icon-only Buttons with Hidden Labels</h2>  <p class="mb-4">These buttons use the <code class="bg-gray-100 px-1 rounded">sr-only</code> class to provide  text for screen readers while keeping the visual interface clean.</p>  <div class="flex space-x-4">  <button type="button"  class="p-2 bg-blue-600 text-white rounded-md hover:bg-blue-700 focus:outline-none focus:ring-2 focus:ring-blue-500">  <span class="sr-only">Search</span>  <svg xmlns="http://www.w3.org/2000/svg" class="h-5 w-5" fill="none" viewBox="0 0 24 24"  stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2"  d="M21 21l-6-6m2-5a7 7 0 11-14 0 7 7 0 0114 0z" />  </svg>  </button>  <button type="button"  class="p-2 bg-gray-600 text-white rounded-md hover:bg-gray-700 focus:outline-none focus:ring-2 focus:ring-gray-500">  <span class="sr-only">Open menu</span>  <svg xmlns="http://www.w3.org/2000/svg" class="h-5 w-5" fill="none" viewBox="0 0 24 24"  stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2"  d="M4 6h16M4 12h16M4 18h16" />  </svg>  </button>  <button type="button"  class="p-2 bg-red-600 text-white rounded-md hover:bg-red-700 focus:outline-none focus:ring-2 focus:ring-red-500">  <span class="sr-only">Close dialog</span>  <svg xmlns="http://www.w3.org/2000/svg" class="h-5 w-5" fill="none" viewBox="0 0 24 24"  stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2"  d="M6 18L18 6M6 6l12 12" />  </svg>  </button>  <button type="button"  class="p-2 bg-green-600 text-white rounded-md hover:bg-green-700 focus:outline-none focus:ring-2 focus:ring-green-500">  <span class="sr-only">Open settings</span>  <svg xmlns="http://www.w3.org/2000/svg" class="h-5 w-5" fill="none" viewBox="0 0 24 24"  stroke="currentColor">  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2"  d="M10.325 4.317c.426-1.756 2.924-1.756 3.35 0a1.724 1.724 0 002.573 1.066c1.543-.94 3.31.826 2.37 2.37a1.724 1.724 0 001.065 2.572c1.756.426 1.756 2.924 0 3.35a1.724 1.724 0 00-1.066 2.573c.94 1.543-.826 3.31-2.37 2.37a1.724 1.724 0 00-2.572 1.065c-.426 1.756-2.924 1.756-3.35 0a1.724 1.724 0 00-2.573-1.066c-1.543.94-3.31-.826-2.37-2.37a1.724 1.724 0 00-1.065-2.572c-1.756-.426-1.756-2.924 0-3.35a1.724 1.724 0 001.066-2.573c-.94-1.543.826-3.31 2.37-2.37.996.608 2.296.07 2.572-1.065z" />  <path stroke-linecap="round" stroke-linejoin="round" stroke-width="2"  d="M15 12a3 3 0 11-6 0 3 3 0 016 0z" />  </svg>  </button>  </div>  </section>  <!-- Section 2: Accessible form with aria-live regions -->  <section class="bg-white rounded-lg shadow-md p-6 mb-8">  <h2 class="text-xl font-semibold mb-4">2. Accessible Form with Error Messages</h2>  <p class="mb-4">This form uses <code class="bg-gray-100 px-1 rounded">aria-live</code> regions to announce  error messages to screen readers.</p>  <form onsubmit="return validateForm()" class="max-w-md">  <div class="mb-4">  <label for="name" class="block text-gray-700 font-medium mb-2">Name</label>  <input type="text" id="name" name="name" required  class="w-full px-3 py-2 border border-gray-300 rounded-md focus:outline-none focus:ring-2 focus:ring-blue-500"  aria-required="true">  </div>  <div class="mb-4">  <label for="email" class="block text-gray-700 font-medium mb-2">Email</label>  <input type="email" id="email" name="email" required  class="w-full px-3 py-2 border border-gray-300 rounded-md focus:outline-none focus:ring-2 focus:ring-blue-500"  aria-required="true" aria-describedby="email-hint" aria-invalid="false">  <p id="email-hint" class="mt-1 text-sm text-gray-500">We'll never share your email with anyone else.  </p>  <p id="email-error" class="mt-1 text-sm text-red-600 hidden">Please enter a valid email address.</p>  <!-- Hidden live region for screen readers -->  <div id="email-live-region" class="sr-only" aria-live="assertive"></div>  </div>  <div class="mb-4">  <label for="message" class="block text-gray-700 font-medium mb-2">Message</label>  <textarea id="message" name="message" rows="4"  class="w-full px-3 py-2 border border-gray-300 rounded-md focus:outline-none focus:ring-2 focus:ring-blue-500"  aria-required="false"></textarea>  </div>  <button type="submit"  class="px-4 py-2 bg-blue-600 text-white rounded-md hover:bg-blue-700 focus:outline-none focus:ring-2 focus:ring-blue-500">  Submit  </button>  </form>  </section>  <!-- Section 3: Navigation with extra screen reader context -->  <section class="bg-white rounded-lg shadow-md p-6 mb-8">  <h2 class="text-xl font-semibold mb-4">3. Enhanced Navigation for Screen Readers</h2>  <p class="mb-4">This navigation includes additional context for screen readers using <code  class="bg-gray-100 px-1 rounded">sr-only</code> spans.</p>  <nav class="bg-gray-100 rounded-lg p-4">  <ul class="flex flex-wrap space-x-4">  <li>  <a href="#" class="text-blue-600 hover:underline">  Dashboard  <span class="sr-only">View your account dashboard</span>  </a>  </li>  <li>  <a href="#" class="text-blue-600 hover:underline">  Orders  <span class="sr-only">View your order history</span>  </a>  </li>  <li>  <a href="#" class="text-blue-600 hover:underline">  Downloads  <span class="sr-only">Access your purchased downloads</span>  </a>  </li>  <li>  <a href="#" class="text-blue-600 hover:underline">  Account  <span class="sr-only">Manage your account settings</span>  </a>  </li>  <li>  <a href="#" class="text-blue-600 hover:underline">  Logout  <span class="sr-only">Sign out of your account</span>  </a>  </li>  </ul>  </nav>  </section>  <!-- Section 4: Skip to content link -->  <section class="bg-white rounded-lg shadow-md p-6">  <h2 class="text-xl font-semibold mb-4">4. Skip to Content Link</h2>  <p class="mb-4">A "Skip to Content" link is included at the top of the page. It's visually hidden by default  but becomes visible when focused (try pressing Tab when the page loads).</p>  <div class="bg-gray-100 p-4 rounded-lg">  <p class="mb-2 font-medium">Implementation:</p>  <pre class="bg-gray-800 text-white p-3 rounded-lg overflow-x-auto text-sm">  &lt;a href="#main-content"  class="sr-only focus:not-sr-only focus:absolute focus:top-0  focus:left-0 focus:z-50 focus:p-4 focus:bg-blue-600  focus:text-white"&gt;  Skip to main content  &lt;/a&gt;</pre>  </div>  </section>  </main>  </body>  </html> |
| **Output:** |  |

**Submission Date: Faculty’s Signature:**