ASSIGNMENT

NAME: RAMAVATH SANTHOSH
ROLL NO: 22MCF1R40
2ND SEMESTER, 1ST YEAR, MCA

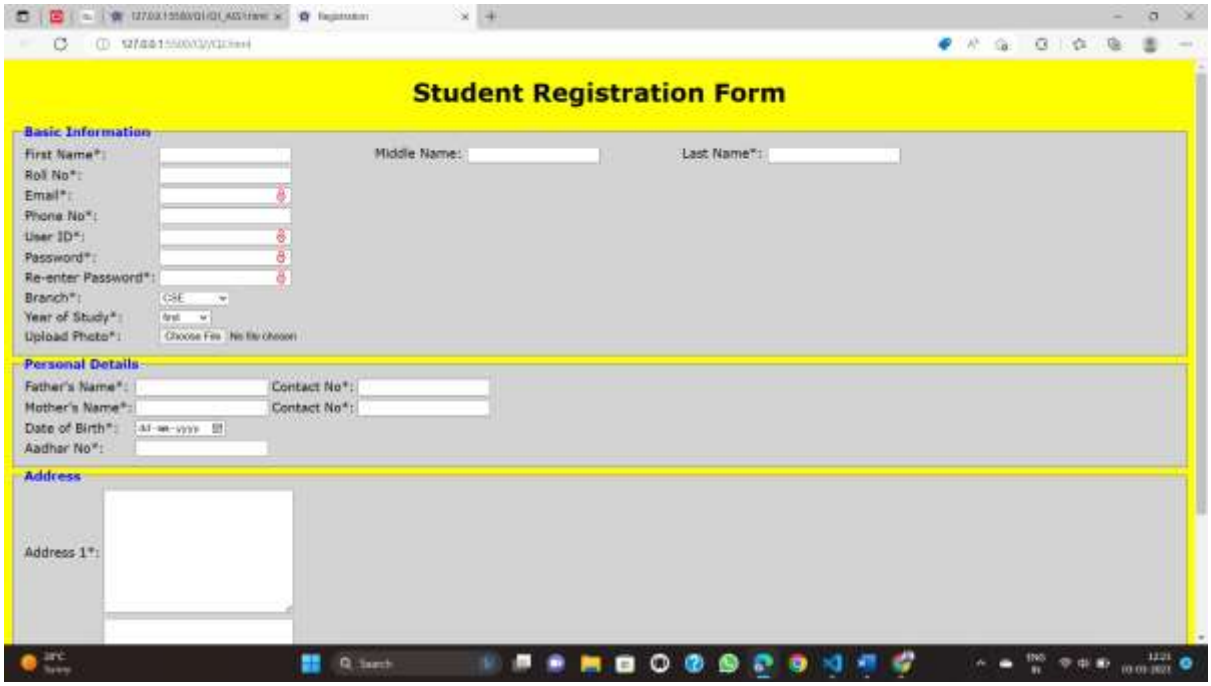
Introduction:

I) Outputs
II) Codes

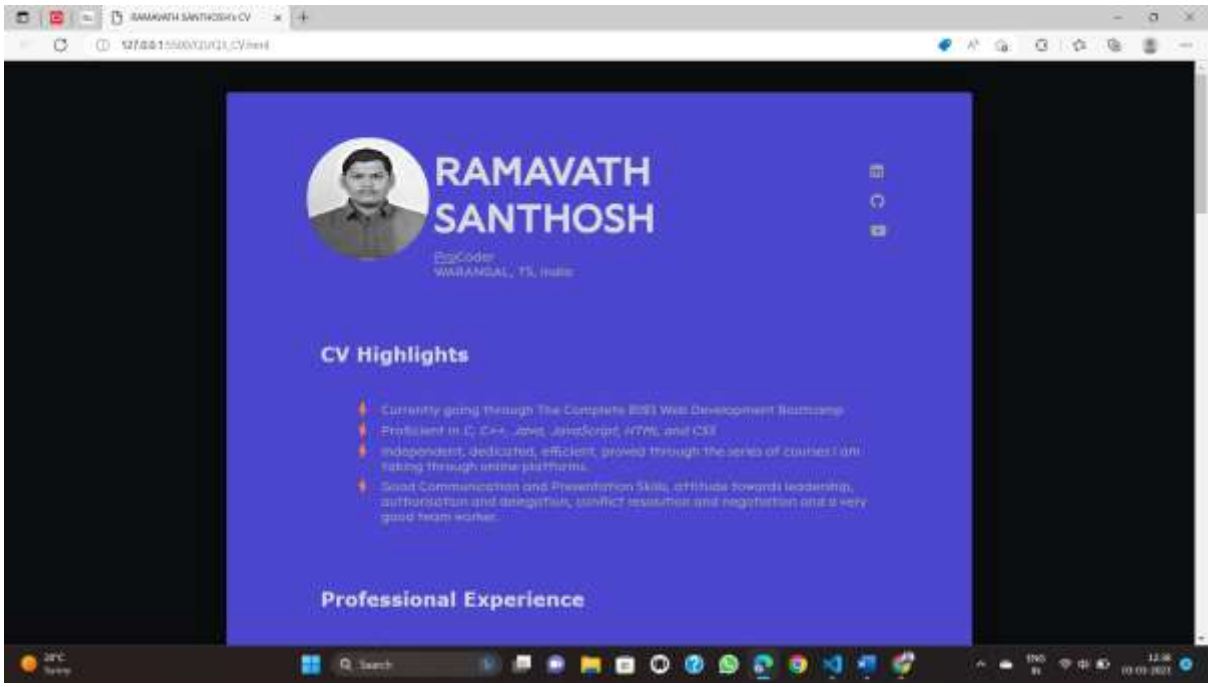
1)

Sr.No	Details of services Provided	Qty	Service Period		Service Performance Details			
			From	To	S.No	Service ID No.	Gap in Service (in days)	Overall Performance Remarks(Satisfactory/Un-satisfactory)
1					1			
					2			
					3			
2					1			
					2			

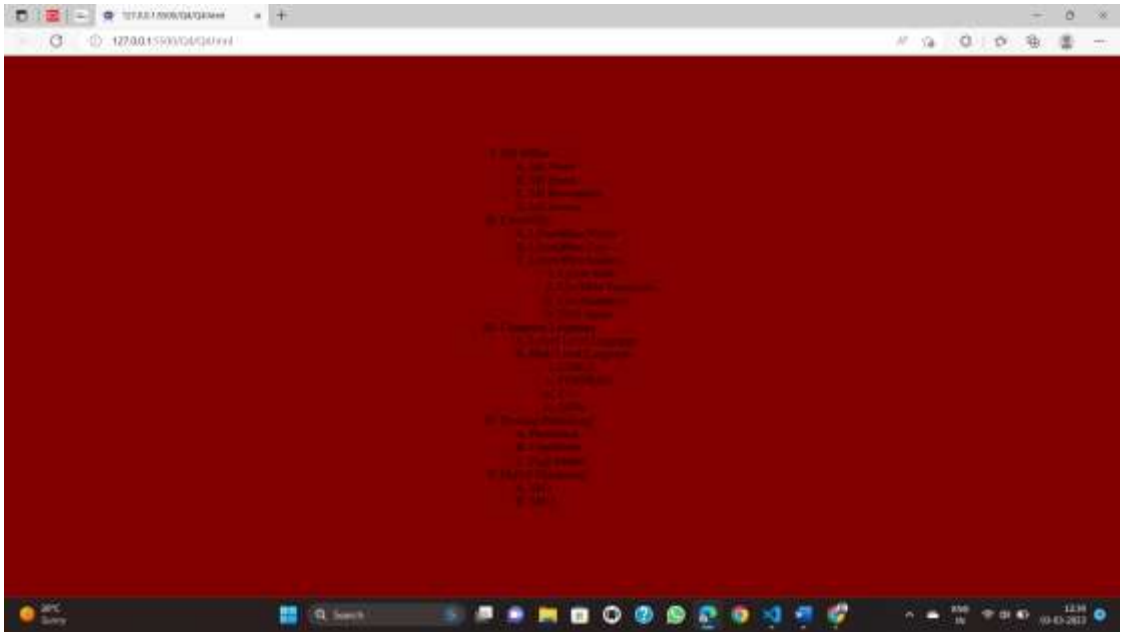
2)


Student Registration Form
Basic Information
First Name*:
Middle Name:
Last Name*:
Roll No*:
Email*:
Phone No*:
User ID*:
Password*:
Re-enter Password*:
Branch*:
Year of Study*:
Upload Photo*:
Choose File
No file chosen
Personal Details
Father's Name*:
Contact No*:
Mother's Name*:
Contact No*:
Date of Birth*:
Aadhar No*:
Address
Address 1*:

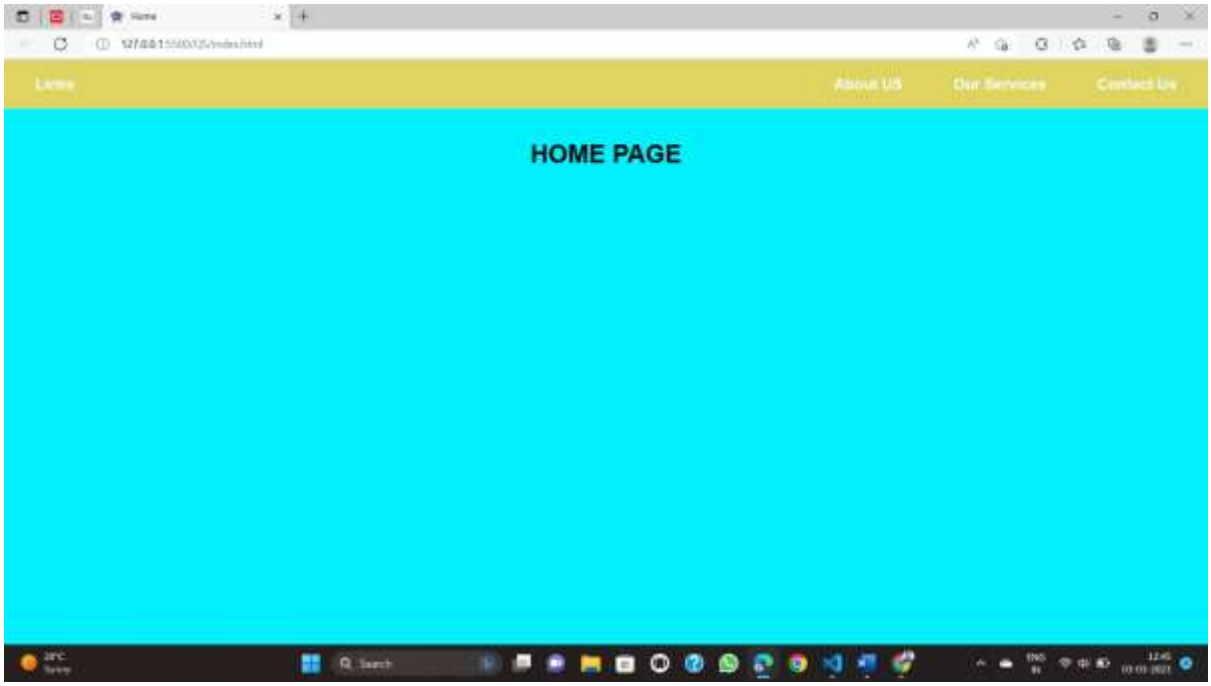
3)


RAMAVATH
SANTHOSH
CV Highlights
Professional Experience

4)



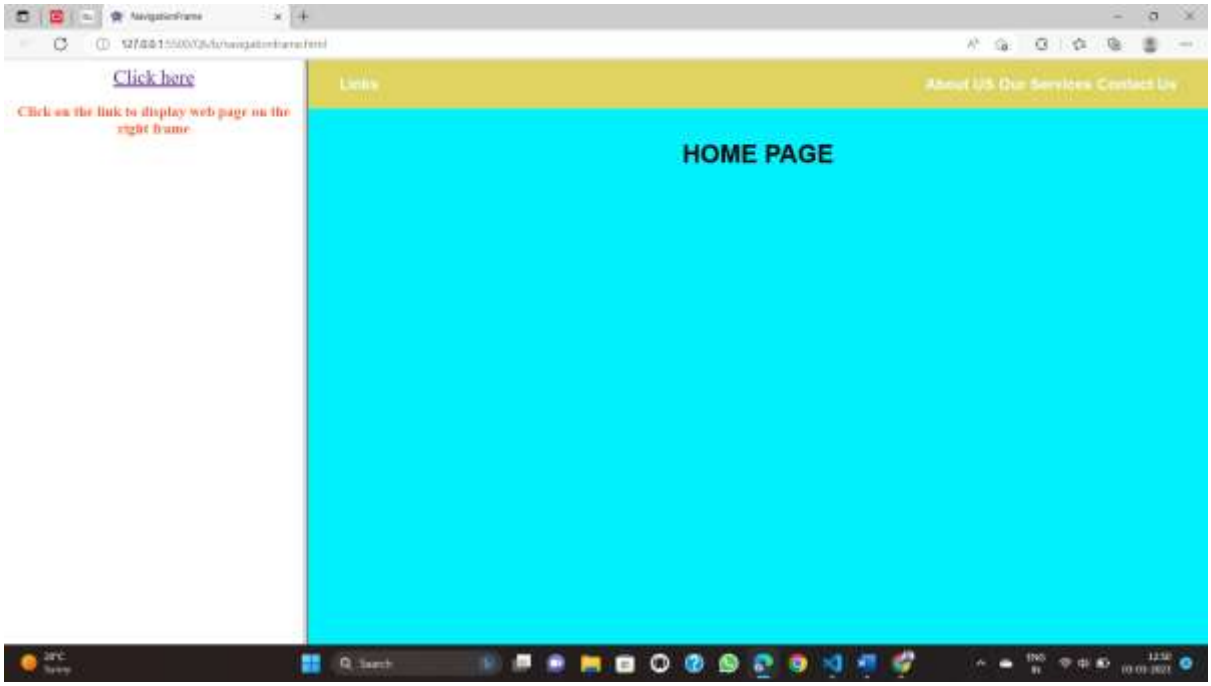
5)



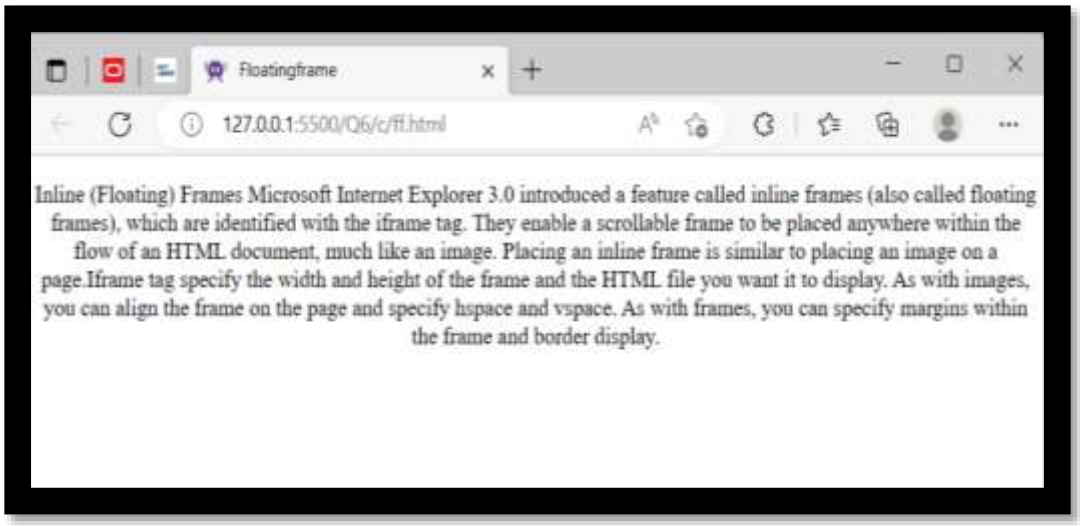
6) a)

TIME TABLE
8:00-9:00
9:00-10:00
10:00-11:00
11:00-12:00
12:00-1:00
2:00-3:00
3:00-4:00
4:00-5:00
MON
OOP
DBS
MTP
DS
DBLAB (CS)
TUE
WT
MTP
DS
DBS
DSLAB (CS)
WED
WT
MTP
DBS
DS
THUR
WTLAB (CS)
WT
OOP

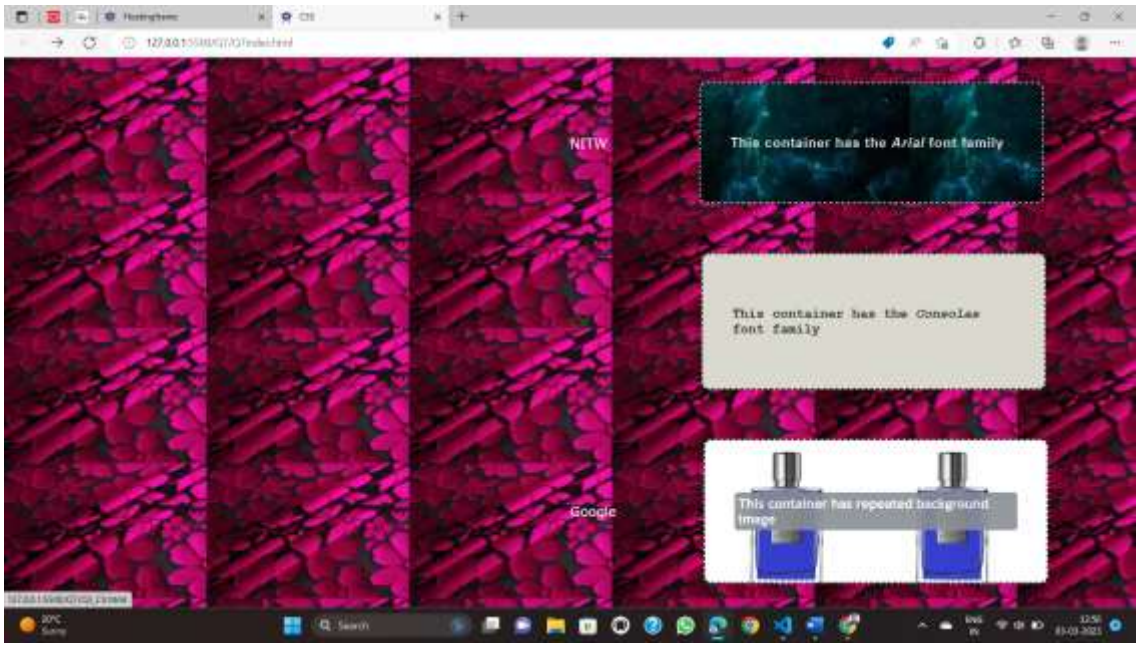
6) b)


Click here
Click on the link to display web page on the right frame
Links
About US Our Services Contact Us
HOME PAGE

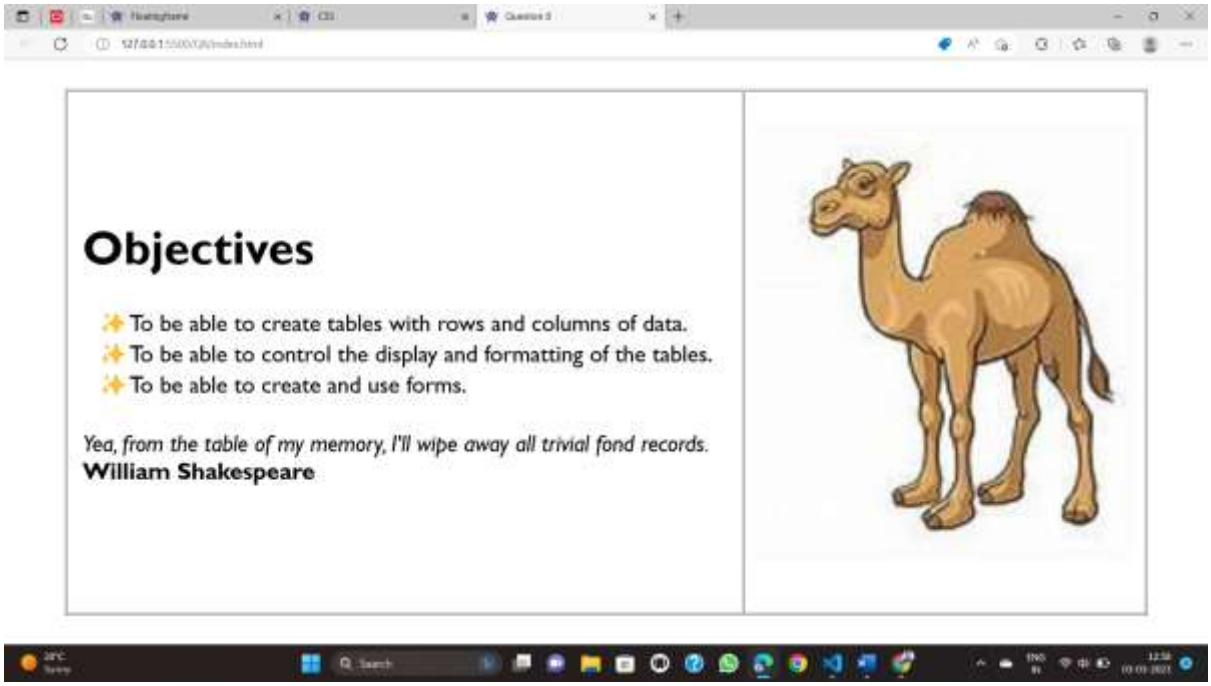
6) c)


Floatingframe
127.0.0.1:5500/Q6/c/ff.html
Inline (Floating) Frames Microsoft Internet Explorer 3.0 introduced a feature called inline frames (also called floating frames), which are identified with the iframe tag. They enable a scrollable frame to be placed anywhere within the flow of an HTML document, much like an image. Placing an inline frame is similar to placing an image on a page.Iframe tag specify the width and height of the frame and the HTML file you want it to display. As with images, you can align the frame on the page and specify hspace and vspace. As with frames, you can specify margins within the frame and border display.

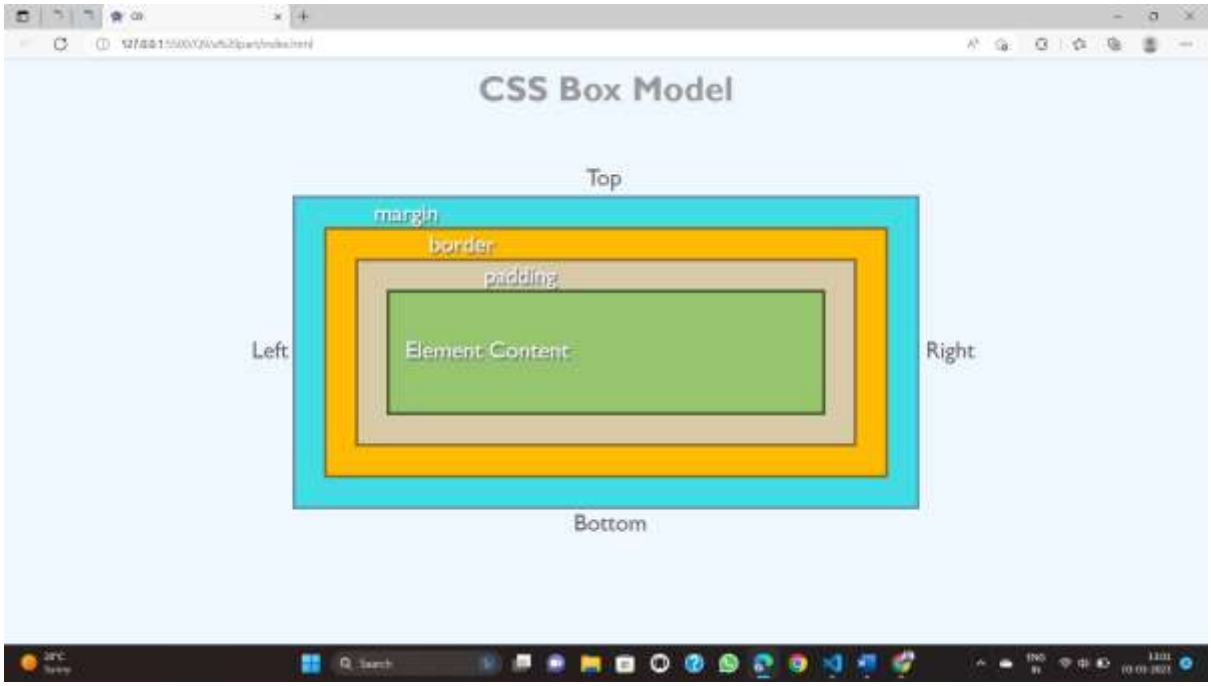
7)


NETW
This container has the Arial font family
This container has the Consolas font family
Google
This container has repeated background image

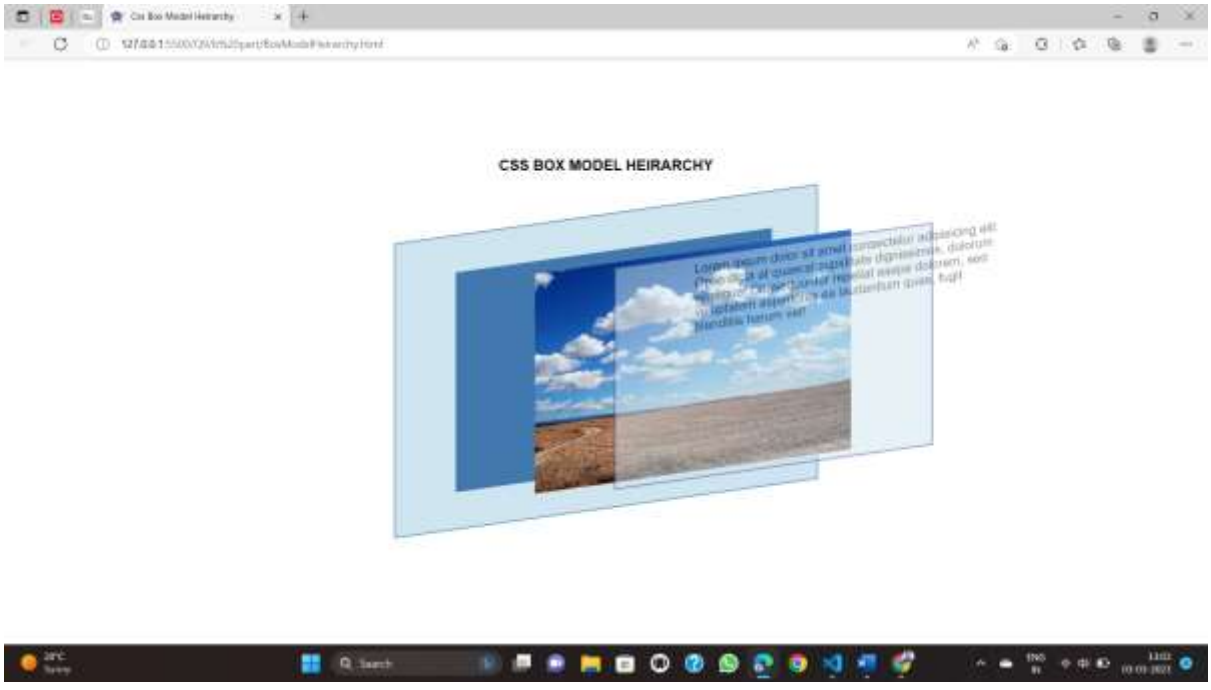
8)


Objectives
To be able to create tables with rows and columns of data.
To be able to control the display and formatting of the tables.
To be able to create and use forms.
Yea, from the table of my memory, I'll wipe away all trivial fond records.
William Shakespeare

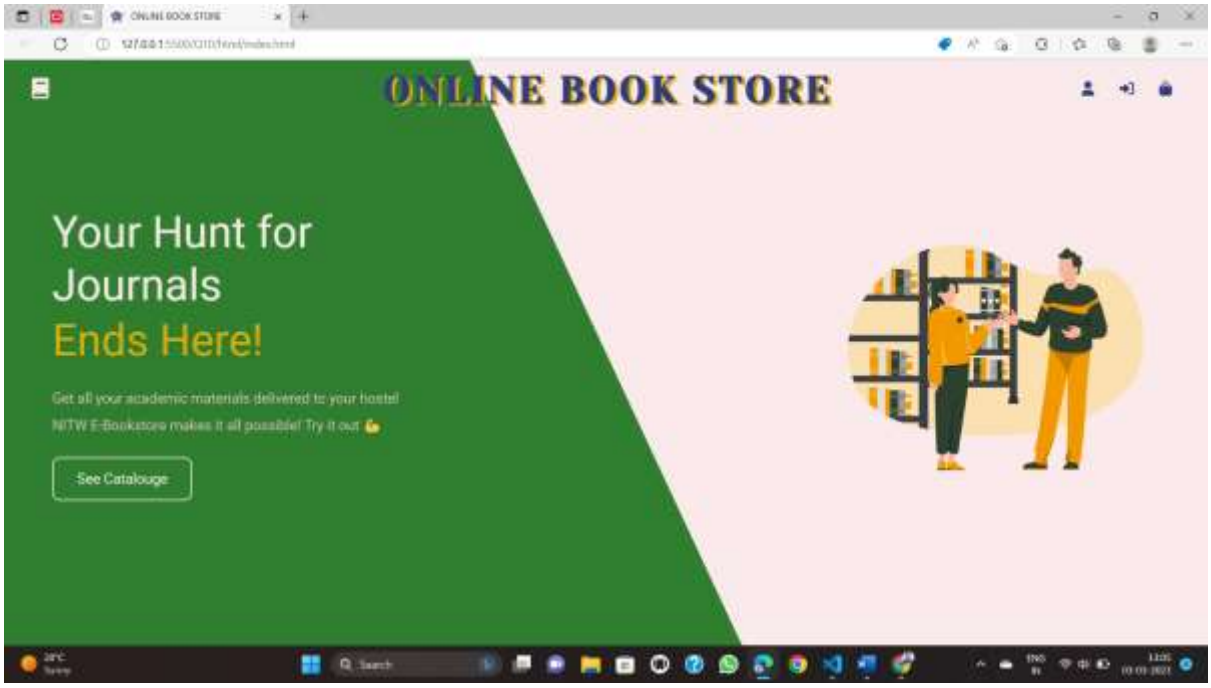
9) i)

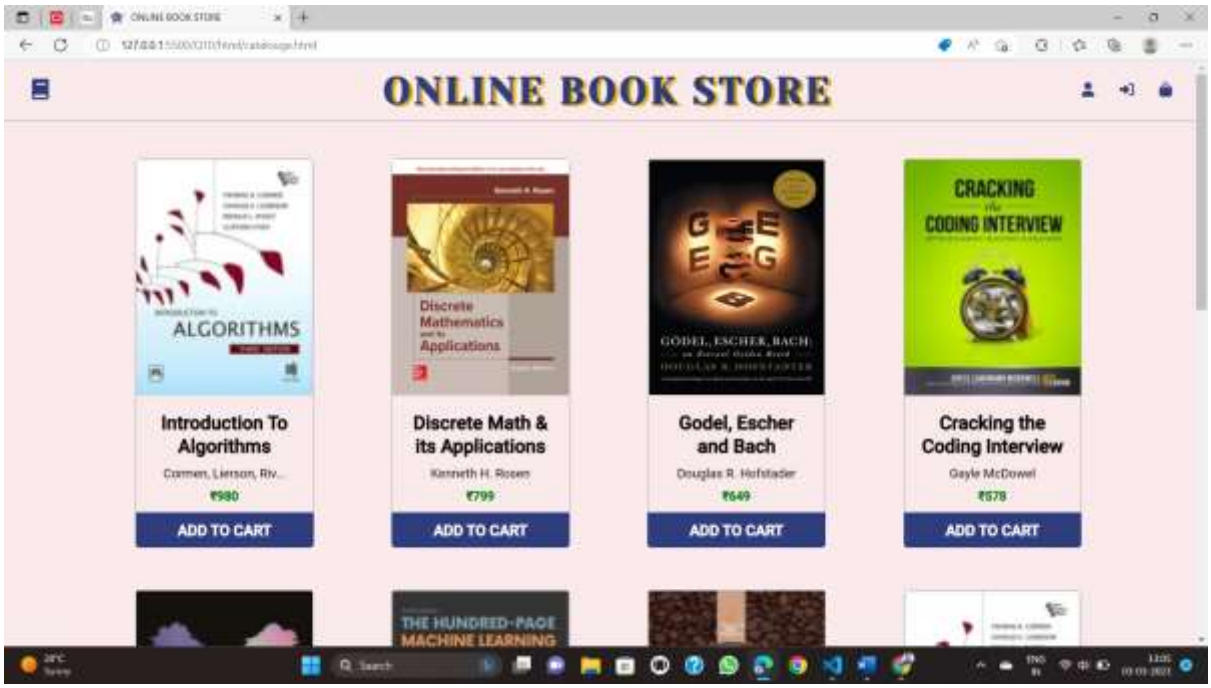

CSS Box Model
Top
margin
border
padding
Element Content
Left
Right
Bottom

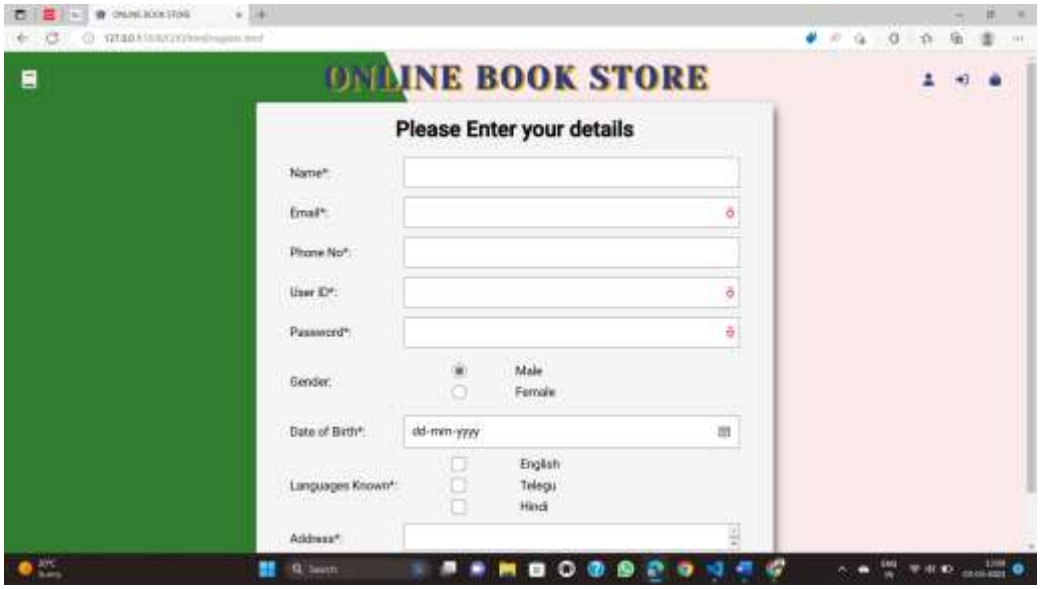
9) ii)


CSS BOX MODEL HEIRARCHY

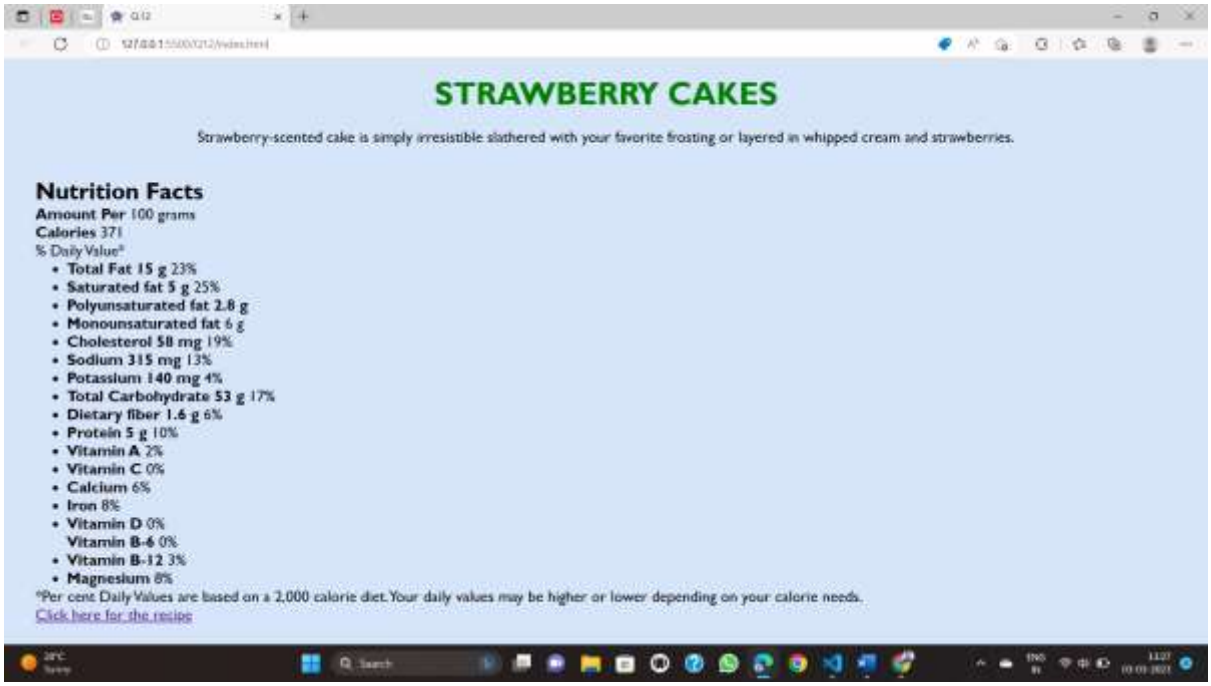
10)

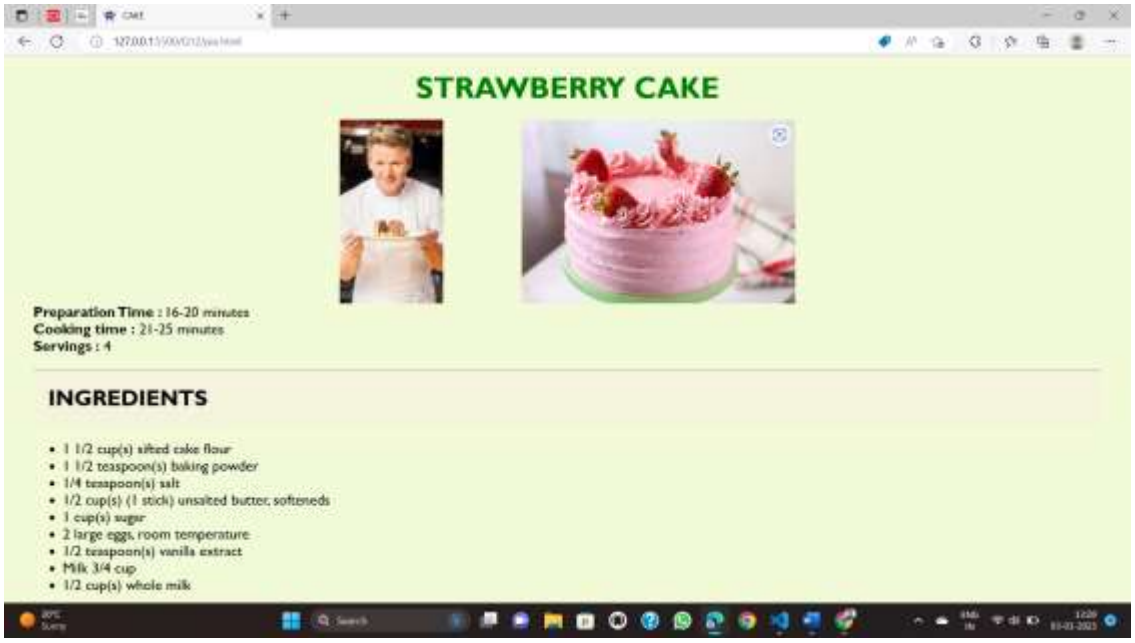

ONLINE BOOK STORE
Your Hunt for Journals
Ends Here!
Get all your academic materials delivered to your hostel
NITW E-Bookstore makes it all possible! Try it out
See Catalouge


ONLINE BOOK STORE
Introduction To Algorithms
Cormen, Lierson, Riv...
₹980
ADD TO CART
Discrete Math & its Applications
Kenneth H. Rosen
₹799
ADD TO CART
Godel, Escher and Bach
Douglas R. Hofstadter
₹649
ADD TO CART
Cracking the Coding Interview
Gayle McDowel
₹578
ADD TO CART

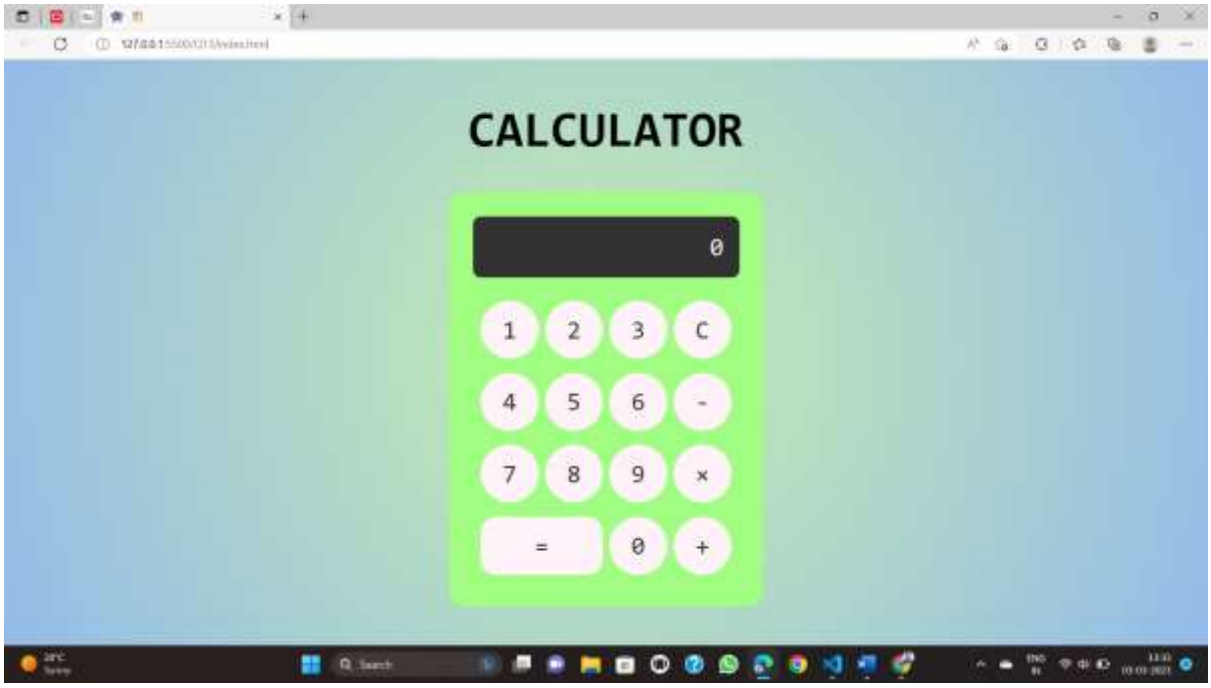

ONLINE BOOK STORE
Please Enter your details
Name*:
Email*:
Phone No*:
User ID*:
Password*:
Gender:
Male
Female
Date of Birth*:
dd-mm-yyyy
Languages Known*:
English
Telegu
Hindi
Address*:

12)


STRAWBERRY CAKES
Strawberry-scented cake is simply irresistible slathered with your favorite frosting or layered in whipped cream and strawberries.
Nutrition Facts
Amount Per 100 grams
Calories 371
% Daily Value*
Total Fat 15 g 23%
Saturated fat 5 g 25%
Polyunsaturated fat 2.8 g
Monounsaturated fat 6 g
Cholesterol 58 mg 19%
Sodium 315 mg 13%
Potassium 140 mg 4%
Total Carbohydrate 53 g 17%
Dietary fiber 1.6 g 6%
Protein 5 g 10%
Vitamin A 2%
Vitamin C 0%
Calcium 6%
Iron 8%
Vitamin D 0%
Vitamin B-6 0%
Vitamin B-12 3%
Magnesium 8%
*Per cent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs.
Click here for the recipe


STRAWBERRY CAKE
Preparation Time : 16-20 minutes
Cooking time : 21-25 minutes
Servings : 4
INGREDIENTS
• 1 1/2 cup(s) sifted cake flour
• 1 1/2 teaspoon(s) baking powder
• 1/4 teaspoon(s) salt
• 1/2 cup(s) (1 stick) unsalted butter, softened
• 1 cup(s) sugar
• 2 large eggs, room temperature
• 1/2 teaspoon(s) vanilla extract
• Milk 3/4 cup
• 1/2 cup(s) whole milk

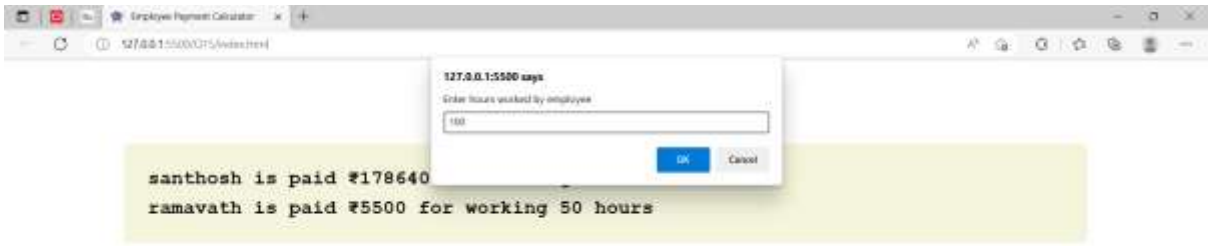
13)


CALCULATOR
0
1
2
3
C
4
5
6
-
7
8
9
×
=
0
+

14)

Squares and Cubes Table
127.0.0.1:5500/Q14/index.html
Number Square Cube
0 0 0
1 1 1
2 4 8
3 9 27
4 16 64
5 25 125
6 36 216
7 49 343
8 64 512
9 81 729
10 100 1000

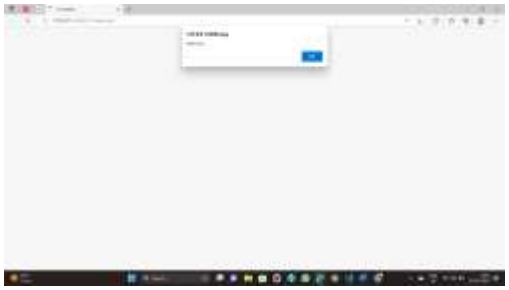
15)


127.0.0.1:5500 says
Enter hours worked by employee
100
OK
Cancel
santhosh is paid ₹178640
ramavath is paid ₹5500 for working 50 hours

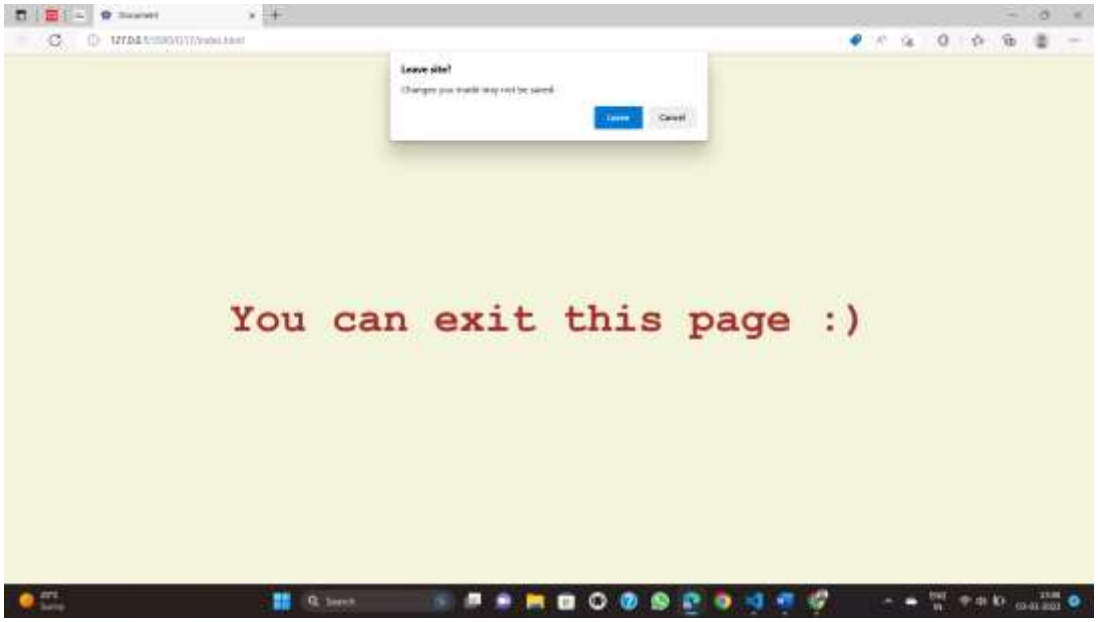
16)

Document
127.0.0.1:5500/Q16/index.html
You entered: hello friends happy to see you all.I like to say something to you
Word Word length No. of occurences
hello 5 1
friends 7 1
happy 5 1
to 2 3
see 3 1
you 3 2
all.I 5 1
like 4 1
say 3 1
something 9 1

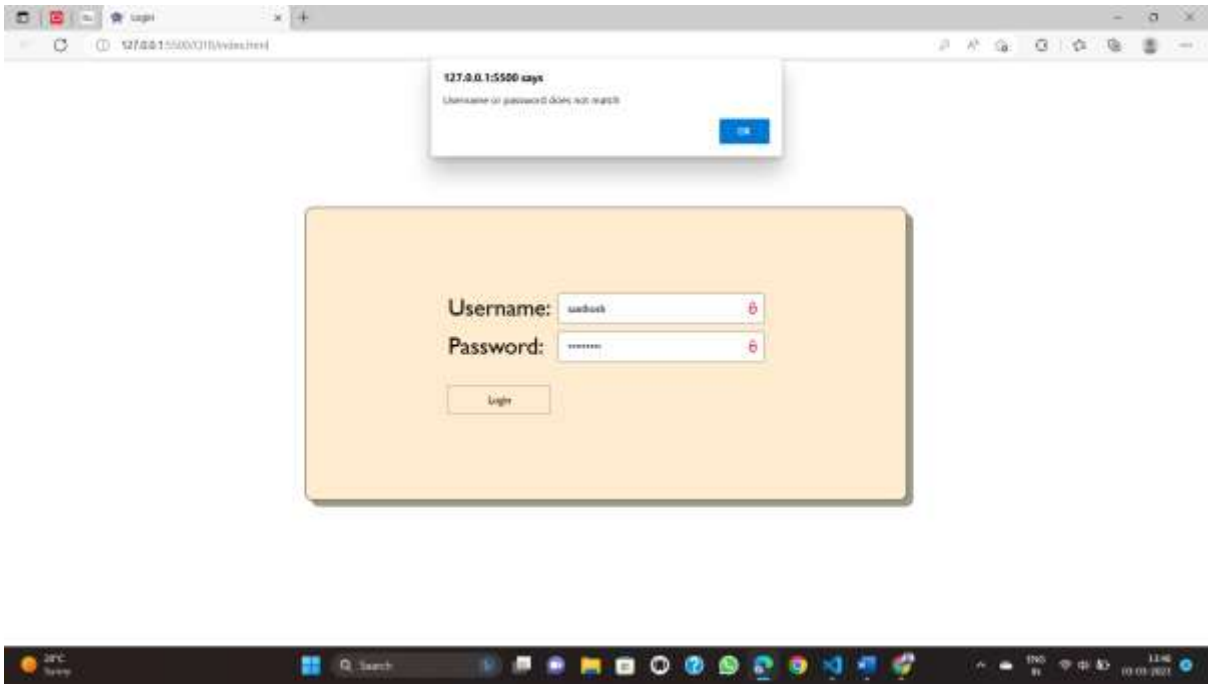
17)



Click on me before exiting the webpage


Leave site?
You can exit this page :)

18)


Username:
Password:
Login

1.Design a webpage to display following table.

CODE:

```
<!DOCTYPE html>
<html>

<body>
   <table border="1">
      <tr>
         <!-- ROW1-->
         <td rowspan="2" >Sr.No</td>
         <td rowspan="2" >Details of services Provided</td>
         <td rowspan="2" >Qty</td>
         <td colspan="2" >Service Period</td>
         <td  rowspan="1" colspan="4" >Service Performance Details</td>

      </tr>

      <tr>
         <!-- ROW2-->
         <td >From</td>
         <td >To</td>
         <td >S.No</td>
         <td  >Service ID No.</td>
         <td >Gap in Service (in days)</td>
         <td >Overall Performance Remarks(Satisfactory/Un-satisfactory) </td>

      </tr>

      <tr>
        <!--ROW3-->
         <td rowspan="3"> 1 </td>
         <td rowspan="3"> </td>
         <td></td>
         <td></td>
         <td></td>
         <td>1</td>
         <td></td>
         <td></td>
         <td></td>

      </tr>

      <tr>
         <!-- ROW4 -->
         <td></td>
         <td></td>
         <td></td>
         <td>2</td>
         <td></td>
         <td></td>
         <td></td>
```

```
        </tr>

        <tr>
            <!-- ROW5 -->
            <td></td>
           <td></td>
           <td></td>
           <td>3</td>
           <td></td>
           <td></td>
           <td></td>

        </tr>

        <tr>
           <!--ROW6-->
            <td rowspan="3"> 2 </td>
            <td rowspan="3"> </td>
            <td></td>
            <td></td>
            <td></td>
            <td>1</td>
            <td></td>
            <td></td>
            <td></td>

         </tr>

         <tr>
            <!-- ROW7 -->
            <td></td>
            <td></td>
            <td></td>
            <td>2</td>
            <td></td>
            <td></td>
            <td></td>

         </tr>

    </table>
</body>

</html>
```

2. Create an html page named as “registration.html”
a) Set background colors as blue
b) Use table for alignment
c) Provide font colors & size.

CODE:

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

```
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Registration</title>
    <link rel="stylesheet" href="Q2style.css">
</head>
<body>
    <h1 align="center">Student Registration Form</h1>
    <form action="#">
        <fieldset>
            <legend>Basic Information</legend>
            <table>
                <tr>
                    <td>
                        <label for="fname">First Name*:</label>
                    </td>
                    <td>
                        <input type="text" name="fname" id="" required>
                        <span class="ml">
                            <label for="mname">Middle Name:</label>
                            <input type="text" name="mname" id="">
                        </span>
                        <span class="ml">
                            <label for="lname">Last Name*:</label>
                            <input type="text" name="lname" id="" required>
                        </span>
                    </td>
                </tr>
                <tr>
                    <td>
                        <label for="roll">Roll No*:</label>
                    </td>
                    <td><input type="text" name="roll" id="" required></td>
                </tr>
                <tr>
                    <td>
                        <label for="email">Email*:</label>
                    </td>
                    <td><input type="email" name="email" id="" required></td>
                </tr>
                <tr>
                    <td>
                        <label for="phone">Phone No*:</label>
                    </td>
                    <td><input type="number" name="phone" id="" required></td>
                </tr>
                <tr>
                    <td>
                        <label for="uid">User ID*:</label>
                    </td>
                    <td><input type="text" name="uid" id="" required></td>
                </tr>
                <tr>
```

```
            <td>
                <label for="pass">Password*:</label>
            </td>
            <td><input type="password" name="pass" id="" required></td>
        </tr>
        <tr>
            <td>
                <label for="rpass">Re-enter Password*:</label>
            </td>
            <td><input type="password" name="rpass" id="" required></td>
        </tr>
        <tr>
            <td>
                <label for="branch">Branch*:</label>
            </td>
            <td>
                <select name="branch" id="">
                    <option value="CSE">CSE</option>
                    <option value="ECE">ECE</option>
                    <option value="EEE">EEE</option>
                    <option value="Mechanical">Mechanical</option>
                </select>
            </td>
        </tr>
        <tr>
            <td>
                <label for="yos">Year of Study*:</label>
            </td>
            <td>
                <select name="yos" id="">
                    <option value="first">first</option>
                    <option value="second">second</option>
                    <option value="third">third</option>
                </select>
            </td>
        </tr>
        <tr>
            <td><label for="photo">Upload Photo*:</label></td>
            <td><input type="file" name="photo" id=""></td>
        </tr>
    </table>
</fieldset>
<fieldset>
    <legend>Personal Details</legend>
    <table>
        <tr>
            <td><label for="father-name">Father's Name*:</label></td>
            <td><input type="text" name="father-name" id="" required></td>
            <td><label for="father-contact">Contact No*:</label></td>
            <td><input type="text" name="father-contact" id="" required></td>
        </tr>
        <tr>
            <td><label for="mother-name">Mother's Name*:</label></td>
            <td><input type="text" name="mother-name" id="" required></td>
            <td><label for="mother-contact">Contact No*:</label></td>
```

```
                <td><input type="text" name="mother-contact" id="" required></td>
            </tr>
            <tr>
                <td><label for="dob">Date of Birth*:</label></td>
                <td><input type="date" name="dob" id="" required></td>
            </tr>
            <tr>
                <td><label for="aadhar">Aadhar No*:</label></td>
                <td><input type="text" name="aadhar" id="" required></td>
            </tr>
        </table>
    </fieldset>
    <fieldset>
        <legend>Address</legend>
        <table>
            <tr>
                <td><label for="address1">Address 1*:</label></td>
                <td><textarea name="address1" id="" cols="30" rows="10"
required></textarea></td>
            </tr>
            <tr>
                <td><label for="address2">Address 2*:</label></td>
                <td><textarea name="address2" id="" cols="30" rows="10"
required></textarea></td>
            </tr>
        </table>
    </fieldset>
    <div class="center">
        <input type="button" value="Register">
        <input type="button" value="Reset">
    </div>
</form>
</body>

</html>

Style.css:
body {
    background-color: yellow;
    font-family: Verdana, Geneva, Tahoma, sans-serif;
}

.ml {
    margin-left: 100px;
}

fieldset{
    background-color: lightgray;
}

legend {
    font-weight: bold;
    color: blue;
}
```

```
.center{
    width: max-content;
    margin: auto;
}

input[type="button"]{
    margin: 0 20px;
    margin-top: 10px;
    background-color: #00597a;
    color: white;
    padding: 10px;
    border: 1px solid;
    border-radius: 5px;
    width: 100px;
    font-size: 15px;
    transition: .3s;
}

input[type="button"]:hover{
    background-color: #004964;
    transition: .3s;
}
```

3. Write an HTML code to display your CV on a web page.

CODE:

```
<html>

<head>
  <title>RAMAVATH SANTHOSH's CV</title>
  <script src="https://kit.fontawesome.com/01d3148803.js"
crossorigin="anonymous"></script>
  <link rel="stylesheet" href="Q3style.css">
  <link rel="icon" type="image/x-icon" href="favicon.ico">
</head>

<body>
  <div class="cv-start">
    <div id="header">
      <div class="profile">
        <img class="profile-image" src="Passport_Photograph.jpg" alt="">
        <div class="profile-details">
          <p id="name">RAMAVATH SANTHOSH</p>
          <p class="name-undertext"><span class="underline">Pro</span>Coder</p>
          <p class="name-undertext">WARANGAL, TS, India </p>
        </div>
      </div>
      <div class="socials">
```

```
      <a href="https://www.linkedin.com/in/santhosh-ramavath-9a28b71a3" id="linkedin">
        <i class="fa-brands fa-linkedin"></i>
      </a>
      <a href="https://github.com/sanlal/module3_solution" id="github">
        <i class="fa-brands fa-github"></i>
      </a>
      <a href="https://www.youtube.com/channel/UC4U6xTSl-pYAR4Qbk0UDsgA"
id="youtube">
        <i class="fa-brands fa-youtube"></i>
      </a>
    </div>
  </div>
  <div class="cv-content">
    <h3>CV Highlights</h3>
    <p>
    <ul class="list">
      <div>
        <li data-list-icon=" ">Currently going through The Complete 2023 Web Development
Bootcamp
        </li>
      </div>
      <div>
        <li data-list-icon=" ">Proficient in <em>&amp;nbsp;C, C++, Java, JavaScript, HTML and
CSS</em></li>
      </div>
      <div>
        <li data-list-icon=" ">Independent, dedicated, efficient, proved through the series of
courses I am taking through online platforms.</li>
      </div>
      <div>
        <li data-list-icon=" ">Good Communication and Presentation Skills, attitude towards
leadership, authorisation and delegation, conflict resolution and negotiation and a very good
team worker.
        </li>
      </div>
    </ul>
    </p>
    <h3>Professional Experience</h3>
    <h4 id="company-name">Times Of India</h4>
    <p id="job-title"><strong>Student Editor</strong></p>
    <p id="job-responsibilities">Job Responsbilities</p>
    <p>
    <ul class="list">
      <li data-list-icon=" ">Review an upcoming TOI issue once a year</li>
      <li data-list-icon=" ">Make edits, suggest articles and manage layout of upcoming
issues</li>
    </ul>
    <h4 id="company-name">Chegg India</h4>
    <p id="job-title"><strong>Subject Matter Expert (Computer Science)</strong></p>
    <p id="job-responsibilities">Job Responsbilities</p>
    <p>
    <ul class="list">
      <li data-list-icon=" ">Answer questions posted by students with varied exposure to
the subject</li>
```

```
      <li data-list-icon="">Resolve Doubts and queries to submitted answers</li>
    </ul>
    </p>
    <h3>Educational Qualifications</h3>
    <table>
      <tr id="heading">
        <td>Qualification</td>
        <td>School / Uni</td>
        <td>Percentage / Grades</td>
        <td>Year</td>
      </tr>
      <tr>
        <td>S.S.C</td>
        <td>GOVERNMENT BOYS HIGH SCHOOL, JAMAE OSMANIA</td>
        <td>9.0 CGPA</td>
        <td>2016</td>
      </tr>
      <tr>
        <td>MPC</td>
        <td>SRI CHAITANYA JUNIOR KALASALA</td>
        <td>89.6%</td>
        <td>2018</td>
      </tr>
      <tr>
        <td>BSc. Computer Science</td>
        <td>CENTRAL UNIVERSITY OF RAJASTHAN</td>
        <td>7.52 CGPA</td>
        <td>2022</td>
      </tr>
      <tr>
        <td>MCA</td>
        <td>National Institute of Technology, Warangal</td>
        <td>Ongoing (6.88 CGPA)</td>
        <td>2025</td>
      </tr>
    </table>
    <h3>Independent Courses</h3>
    <p>
    <ul class="list">
      <li data-list-icon="">
        <div>
          <span id="course-name">HTML & CSS for Beginners – Web Fundamentals</span>
– Udemy.com
        </div>
      </li>
      <li data-list-icon="">
        <div>
          <span id="course-name">Python – Fundamentals and Dynamic Programming
</span>-
          Coursera.com
        </div>
      </li>
      <li data-list-icon="">
        <div>
```

```
          <span id="course-name">JavaScript – Programming Basics, JS Apps and Build
Games </span>-
          Edx.com
        </div>
      </li>
      <li data-list-icon="🎓">
        <div>
          <span id="course-name">Automate The Boring Stuff with python</span> - Udemy
        </div>
      </li>
      <li data-list-icon="🎓">
        <div>
          <span id="course-name">The Complete 2023 Web Development Bootcamp</span>
- Udemy
        </div>
      </li>
      <li data-list-icon="🎓">
        <div>
          <span id="course-name">Git and Github Bootcamp / Workshop</span> -
          CSEA NITW
        </div>
      </li>
    </ul>
    <h3>Technical Skills</h3>
    <p>
    <ul class="list">
      <li data-list-icon="🖱">
        <div>
          <span id="course-name">Operating Systems:</span> Windows XP, Windows 7,
Windows 8, Windows 10,
          Windows 11, Linux (Ubuntu)
        </div>
      </li>
      <li data-list-icon="🖱">
        <div>
          <span id="course-name">Application Software:</span> Office 365, Unity, Blender,
SQL Server,
          Processing, Arduino
        </div>
      </li>
      <li data-list-icon="🖱">
        <div>
          <span id="course-name">Programming Skills: </span>HTML, CSS, Python, Java,
JavaScript, C, C++,
          R,
          SQL
        </div>
      </li>
    </ul>
    </p>
    <h3>Certifications / Awards:</h3>
    <p>
    <ul class="list">
```

```
      <li data-list-icon=" 🎖 ">Awarded First Position in Robot Building Competetion using
Arduino by BDM
        International</li>
      <li data-list-icon=" 🎖 ">Awarded certification for distinguished performance in Bachelors
        (First Class)</li>
      <li data-list-icon=" 🎖 ">Ranked 4040 (All India) in NIMCET 2022</li>
    </ul>
    </p>
    <h3>Personal Information:</h3>
    <p>
    <ul class="list">
      <li data-list-icon=" 💡 ">
        <div>
          A young, open-minded, determined, hard and smart working person
        </div>
      <li data-list-icon=" 💡 ">
        <div>
          <span id="course-name">Languages Known: </span>English, Hindi and Telugu
        </div>
      </li>
      <li data-list-icon=" 💡 ">
        <div>
          <span id="course-name">Hobbies: </span>I love playing games, listening to music,
dancing,singing, participating in every curriculum activities and trying new food items
        </div>
      </li>
    </ul>
    </p>
    <h3>Other Information</h3>
    <p>
    <ul class="list">
      <li data-list-icon=" 📌 ">
        <span id="course-name">Expected Salary: </span>As per company standards
      </li>
      <li data-list-icon=" 📌 ">
        <div>
          <span id="course-name">Area of Interest: </span>Software Development,
Programming, Start-ups, Coding, App Development
        </div>
      </li>
      <li data-list-icon=" 📌 ">
        <span id="course-name">Joining Date: </span>Immediate
      </li>
    </ul>
    </p>
    <h3>Declaration</h3>
    <p>
      I hereby declare that the details furnished above are true and correct to the best of my
knowledge and
      belief.</p>
    <!-- <ul>
```

```
            <li>Lorem ipsum dolor sit amet consectetur adipisicing elit. Natus, amet officiis. Neque commodi labore accusamus repellat reprehenderit, nesciunt ratione consectetur natus earum sed quidem atque molestiae praesentium rerum quis excepturi.</li>
          </ul> -->
    </div>
  </div>
 <!--
<div class="footer">
    <p>Made with 💙 by <span>Xarcode</span> </p>
  </div>
 -->

</body>

</html>
```

Style.css:

```
@font-face {
  font-family: 'Lack';
  /*a name to be used later*/
  src: url('Lack-Regular.otf');
  /*URL to font*/
}

*::selection{
  background-color: rgb(17, 18, 18);
}

body {
  font-family: 'Lack';
  /* font-family: Verdana, Geneva, Tahoma, sans-serif; */
  color: #a1a1a1;
  background-color: rgb(11, 12, 13);
}

.cv-start {
  width: 50%;
  margin: auto;
  background-color: #E3EDD8;
  padding: 40px 100px;
  margin-top: 40px;
  margin-bottom: 60px;
  background-color: #4d46cf;
  box-shadow: #00000040 0px 54px 55px, rgba(0, 0, 0, 0.12) 0px -12px 30px, rgba(0, 0, 0, 0.12) 0px 4px 6px, rgba(0, 0, 0, 0.17) 0px 12px 13px, rgba(0, 0, 0, 0.09) 0px -3px 5px;
}

div {
  border-radius: 5px;
}

#header {
  display: flex;
  justify-content: space-between;
```

```
  margin-left: 15px;
  align-items: center;
  color: #dbdbdb;
}

.profile {
  margin: 0;
  display: flex;
  flex-direction: row;
  align-items: flex-start;
  margin-top: 30px;
}

.profile-details {
  display: flex;
  flex-direction: column;
  align-items: baseline;
}

#name {
  margin-left: 20px;
  font-size: 50px;
  font-weight: bold;
  margin-bottom: 10px;
  margin-top: 0;
}

.name-undertext {
  margin: 0 0;
  color: #a1a1a1;
}

span.underline {
  text-decoration: underline;
}

#header>div>img {
  filter: grayscale(100%);
  /* aspect-ratio: 1 / 3; */
  height: 130px;
  width: 130px;
  border-radius: 50%;
  justify-content: center;
  object-fit: scale-down;
  /* object-fit: cover; */
  transform: scale(1.2);
}

.socials {
  display: flex;
  flex-direction: column;
}

.socials a {
```

```
  text-decoration: none;
  color: #a1a1a1;
  display: block;
  font-size: large;
  margin: 10px;
  transition: .4s;
}

.socials a#instagram:hover {
  background: #E600D6;
  background: linear-gradient(to bottom, #E600D6 0%, #FC5A4E 100%);
  background-clip: text;
  -webkit-background-clip: text;
  -webkit-text-fill-color: transparent;
  transition: 1s;

}

.socials a#github:hover {
  color: #fff;
  transition: .4s;
}

.socials a#email:hover {
  color: rgb(42, 209, 255);
  transition: .4s;
}

#job-responsibilities {
  padding: 1px;
}

.job-title {
  font-weight: bold;
}

.cv-content {
  margin-top: 50px;
  margin-left: 20px;
}

table {
  border: 1px solid #dbdbdb;
  border-collapse: collapse;
}

#heading {
  background-color: slateblue;
  color: #dbdbdb;
}

td,
th {
  border: 1px solid #dbdbdb;
```

```
  padding: 3px;
  /* border: 1px solid #E88741; */
}

#course-name {
  font-weight: bold;
}

#company-name {
  height: 2px;
  text-decoration: underline;
}

#job-title {
  height: 5px;
}

.job-duration {
  float: right;
}

#heading {
  font-weight: bold;
}

h3 {
  font-family: Verdana, Geneva, Tahoma, sans-serif;
  font-size: 25px;
  color: #dbdbdb;
  margin: 40px 0;
  margin-top: 80px;
}

.list {
  list-style-type: none;
}

.list li{
  display: flex;
  align-items: baseline;
}

.list li::before {
  content: attr(data-list-icon);
  font-size: 20px;
  margin-right: 10px;
}

.footer {
  text-align: center;
}

.footer span {
  font-weight: bold;
```

```
  transition: .3s;
}

.footer:hover span {
  transition: .3s;
  background: #5DCF46;
  background: linear-gradient(to top left, #5DCF46 30%, #26E9FF 75%);
  background-clip: text;
  -webkit-background-clip: text;
  -webkit-text-fill-color: transparent;
}
```

4. Design the following web page using lists.

CODE:

```
<!DOCTYPE html>
<html>

<head>
    <style>
        body {
            margin: 0;
            background-color: maroon;
        }

        div {
            height: 100vh;
            width: 100%;
            display: flex;
            align-items: center;
            justify-content: center;
        }

        ol {
            background-color: maroon;
        }
    </style>

</head>

<body>
    <div>
        <ol type="I">
            <li>MS Office
                <ol type="A">
                    <li>MS Word</li>
                    <li>MS Excel</li>
                    <li>MS Powerpoint</li>
                    <li>MS Access</li>

                </ol>
```

```
            </li>
            <li>LibreOffice
                <ol type="A">
                    <li>LibreOffice Writer</li>
                    <li>LibreOffice Calc</li>
                    <li>LibreOffice Impress
                        <ol type="i">
                            <li>Create Slide</li>
                            <li>Use Slide Transition</li>
                            <li>Use Animation</li>
                            <li>Slide Show</li>
                        </ol>
                    </li>
                </ol>
            </li>

            <li>Computer Language
                <ol type="A">
                    <li>Lowel Level Language</li>
                    <li>High Level Language
                        <ol type="i">
                            <li>COBOL</li>
                            <li>FORTRAN</li>
                            <li>C++</li>
                            <li>JAVA</li>
                        </ol>
                    </li>

                </ol>
            </li>

            <li>Desktop Publishing
                <ol type="A">
                    <li>Photoshop</li>
                    <li>CorelDraw</li>
                    <li>Page Maker</li>

                </ol>
            </li>

            <li>Digital MArketing
                <ol type="A">
                    <li>SEO</li>
                    <li>SMO</li>

                </ol>
            </li>

        </ol>
    </div>

</body>

</html>
```

Style.css:

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

header {
  background-color: lightgray;
  padding: 20px;
  display: flex;
  justify-content: space-between;
  align-items: center;
}

header h1 {
  margin: 0;
}

nav ul {
  list-style: none;
  display: flex;
  margin: 0;
  padding: 0;
}

nav a {
  display: block;
  padding: 10px 20px;
  text-decoration: none;
  color: black;
}

main {
  display: flex;
  justify-content: space-around;
  padding: 20px;
}

section {
  text-align: center;
  width: 30%;
}

footer {
  background-color: lightgray;
  padding: 20px;
  text-align: center;
}
```

5. Write an HTML code to create a Home page having three links: About Us, Our Services and

Contact Us. Create separate web pages for the three links.

CODE:

About.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>About Us</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <h1>ABOUT US</h1>
</body>
</html>
```

Contact.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Contact Us</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <h1>CONTACT US</h1>
</body>
</html>
```

Index.html:

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

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Home</title>
    <link rel="stylesheet" href="style.css">
</head>

<body>
    <ul class="navbar">
        Links
        <div class="links">
            <li><a href="about.html">About US</a></li>
            <li><a href="services.html">Our Services</a></li>
            <li><a href="contact.html">Contact Us</a></li>
        </div>
    </ul>
    <h1>HOME PAGE</h1>
```

```
</body>

</html>
```

Services.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="style.css">
    <title>Services</title>
</head>
<body>
    <h1>Services</h1>
</body>
</html>
```

Style.css:

```
*{
  margin: 0;
  padding: 0;
  font-family: Arial, Helvetica, sans-serif;
}

.navbar{
  color: azure;
  font-weight: bold;
  padding: 20px 40px;
  background-color: rgb(95, 223, 180);
  display: flex;
  justify-content: space-between;
  font-size: larger;
}

.links{
  width: 30%;
  display: flex;
  justify-content: space-between;
}

.links li{
  list-style-type: none;
}

.links a{
  color: azure;
  text-decoration: none;
}

h1{
  margin-top: 40px;
  text-align: center;
```

```
}
```

6. To create an html page with different types of frames such as floating frame, navigation frame & mixed frame.

a) Create an html page named as “mixedframe.html”. Divide the page into two columns of 25% & 75% size. In 25% display the image and divide the 75% into two rows. (50% & 50%). In the first 50% display the video file, and other 50% the time table created

CODE:

Mixedframe.html:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>MixedFrame</title>
</head>

  <frameset cols="25%,75%">

    <frame name = "left" src = "image.jpeg" />
    <frameset rows="50%,50%">
      <frame name="righttop" src="video.mp4"></frame>
      <frame name="rightbottom" src="timetable.html"></frame>
    </frameset>

  </frameset>

</html>
```

Timetable.html:

```
<!DOCTYPE html>
<html>
<head>
  <title>Time Table</title>
</head>
<style >
  th, td {
  padding: 10px;

}
table{
  border-collapse: collapse;
}

</style>
<body  >
<table align="CENTER" border="2" >
  <caption>TIME TABLE</caption>
  <tr align="CENTER" style="color:blue;font-weight: bold;">
    <td><pre>        </pre></td>
    <td>8:00-9:00</td>
    <td>9:00-10:00</td>
```

```
  <td>10:00-11:00</td>
  <td>11:00-12:00</td>
  <td>12:00-1:00</td>
  <td><pre>        </pre></td>
  <td>2:00-3:00</td>
  <td>3:00-4:00</td>
  <td>4:00-5:00</td>
</tr>
<tr align="CENTER">
  <td style="color:blue" ><b>MON</b></td>
  <td></td>
  <td>OOP</td>
  <td>DBS</td>
  <td>MTP</td>
  <td>DS</td>
  <td rowspan="6"><pre>        </pre></td>
  <td colspan="2">DBLAB (CS)</td>
  <td><pre>        </pre></td>
</tr>

<tr align="CENTER">
  <td style="color:blue" ><b>TUE</b></td>
  <td><pre>        </pre></td>
  <td>WT</td>
  <td>MTP</td>
  <td>DS</td>
  <td>DBS</td>
  <td colspan="3">DSLAB (CS)</td>
</tr>

<tr align="CENTER">
  <td style="color:blue" ><b>WED</b></td>
  <td></td>
  <td>WT</td>
  <td>MTP</td>
  <td>DBS</td>
  <td>DS</td>
  <td><pre>        </pre></td>
  <td><pre>        </pre></td>
  <td><pre>        </pre></td>
</tr>

<tr align="CENTER">
  <td style="color:blue" ><b>THUR</b></td>
  <td><pre>        </pre></td>
  <td><pre>        </pre></td>
  <td colspan="3">WTLAB (CS)</td>
  <td>WT</td>
  <td>OOP</td>
  <td><pre>        </pre></td>
</tr>

<tr align="CENTER">
  <td style="color:blue" ><b>FRI</b></td>
```

```
    <td><pre>       </pre></td>
    <td>OOP</td>
    <td colspan="3">OOPLAB (CS)</td>
    <td><pre>       </pre></td>
    <td><pre>       </pre></td>
    <td><pre>       </pre></td>
  </tr>

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

b) Create an html page named as “navigationframe.html”. Divide the page into two columns of 25%, 75% size. In 25% size call the hyperlink, and make the page to be get displayed on the other column when the link is clicked.

CODE:

Code of QUESTION NO 5 and

Link.html:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <style type="text/css">
    a{
      font-size: 25px;

    }
  </style>
  <title>Link</title>
</head>
<body style="text-align: center;">
  <a href="./q5/index.html" target="right">Click here</a>
  <h3 style="color: #ff5722;">Click on the link to display web page on the right frame</h3>
</body>
</html>
```

Navigationframe.html:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>NavigationFrame</title>
</head>
<frameset cols="25%,75%">
  <frame name="link" src="Link.html"></frame>
  <frame name="right"></frame>


</frameset>
</html>
```

c) Create an html page named as “floatingframes.html”. in this file include a paragraph to explain floating frame, and in floating frame include the any html file.

CODE:

ff.html:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <style type="text/css">
    body{
      text-align: center;
    }
  </style>
  <title>Floatingframe</title>
</head>
<body>
<p>Inline (Floating) Frames Microsoft Internet Explorer 3.0 introduced a feature called inline frames (also called floating frames), which are identified with the iframe tag.
They enable a scrollable frame to be placed anywhere within the flow of an HTML document, much like an image.
Placing an inline frame is similar to placing an image on a page.Iframe tag specify the width and height of the frame and the HTML file you want it to display. As with images, you can align the frame on the page and specify hspace and vspace. As with frames, you can specify margins within the frame and border display.</p>
</body>
</html>
```

Floatingframes.html:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <style type="text/css">
    body{
      margin: 0;
    }
    div
    {
      width: 100%;
      display: flex;
      justify-content: center;
      align-content: center;
    }
  </style>
  <title>floatingframes</title>
</head>
<body>
  <div>
```

```
  <iframe src="ff.html" width="50%" ></iframe>
  </div>
</body>
</html>
```

7. Design a web page using CSS (Cascading Style Sheets) which includes the following:
a) Use different font, styles:
In the style definition you define how each selector should work (font, color etc.).
Then, in the body of your pages, you refer to these selectors to activate the styles.
b) Set a background image for both the page and single elements on the page.
c) Control the repetition of the image with the background-repeat property.
As background-repeat: repeat tiles the image until the entire page is filled, just like an ordinary background image in plain HTML.
d) Define styles for links as
A: link
A: visited
A: active
A: hover
Work with layers
CODE:
3rd question and
Index.html:

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

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>CSS</title>
    <link rel="stylesheet" href="Q7style.css">
</head>

<body>
    <div class="container">

        <div class="sub-container">
            <a href="https://www.nitw.ac.in/">NITW</a>
            <div class="container-2">This container has the <em>Arial</em> font family</div>
        </div>
         <div class="sub-container">
            <a href="Q3_CV.html">CV     </a>
            <div class="container-1">This container has the <em>Consolas</em> font
family</div>
        </div>
        <div class="sub-container">
            <a href="https://www.google.com">Google</a>
            <div class="container-3"><span>This container has repeated background
image</span></span></div>
        </div>
    </div>
</body>
```

```
</html>
```

Style.css:

```
*{
    margin: 0;
    padding: 0;
}

body{
    background-image: url('https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQF1Za-eVGq3z78tkFoBxaq_DrtvepoWGos0Q&usqp=CAU');
}

.container{
    height: 100vh;
    color: white;
    width: 50%;
    float: right;
    display: flex;
    flex-direction: column;
    justify-content: space-around;
}

.sub-container{
    display: flex;
    align-items: center;
}

.sub-container a{
    text-decoration: none;
    font-size: large;
    color: #fff;
    font-family: Verdana, Geneva, Tahoma, sans-serif;
}

.sub-container a:hover{
    color: GREEN;
}
.sub-container a:active{
    text-decoration: dotted;

}
.sub-container a:visited{
    text-decoration: line-through;

}

.container-1 {
background-image: url('');
    background-color: #dad9d0;
    border: 2px dashed #222722;
    border-radius: 10px;
    padding: 70px 40px;
    color: #222722;
```

```
    font-family: 'Courier New', Courier, monospace;
    font-size: large;
    font-weight: bold;
    width: 50%;
    /* letter-spacing: 0px; */
    margin: auto;
}
.container-2 {
background-image: url('https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQ-E__wP3qcZFDWE03-DTyfvYZgDy-5m0PXCw3zuN7zF5aqXdpMKvm7Yrz50HncU0r2mc8&usqp=CAU');
    background-color: #1b3f6cfa;
    border: 2px dashed #dad9d0;
    border-radius: 10px;
    padding: 70px 40px;
    color: #dad9d0;
    font-family: Arial, Helvetica, sans-serif;
    font-size: large;
    font-weight: bold;
    width: 50%;
    margin: auto;
    letter-spacing: 1px;
}
.container-3 {
    background-image: url('https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcT1XXcMrElZxaNFqqdQ58_H5oQkRZq17yl8ApHwR16pxfeYLaG_Ukp1t431z3ARUK4ZnF4&usqp=CAU');
    background-repeat: repeat;
    fill-opacity: .1;
    border: 2px dashed #222722;
    border-radius: 10px;
    padding: 70px 40px;
    color: #fff;
    font-family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans', Arial, sans-serif;
    font-size: large;
    font-weight: bold;
    width: 50%;
    margin: auto;
}

.container-3 span{
    background-color: #898f96;
    display: block;
    opacity: .9;
    border-radius: 5px;
    padding: 5px;
}
```

8. Create the XHTML markup that produces the table shown below. Use and tags as necessary.

CODE:
Index.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="style.css">
    <title>Question 8</title>
</head>
<body>
    <table border="1">
        <tr>
            <td>
                <h1>Objectives</h1>
                <ul>
                    <li>To be able to create tables with rows and columns of data.</li>
                    <li>To be able to control the display and formatting of the tables.</li>
                    <li>To be able to create and use forms.</li>
                </ul>
                <em>Yea, from the table of my memory, I'll wipe away all trivial fond
records.</em>
                <br>
                <strong>William Shakespeare</strong>
            </td>
            <td><img src="img.jpeg" alt="Camel"></td>
        </tr>
    </table>
</body>
</html>
```

Style.css:

```
*{
  margin: 0;
  /* padding: 0; */
  box-sizing: border-box;
}

body{
  font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
  min-height: 100vh;
  display: flex;
  justify-content: center;
}
table{
  width: 90vw;
  height: 90vh;
  margin: auto;
}

td{
  font-size: 30px;
}
```

```
td h1{
  font-size: 60px;
  margin-bottom: 40px;
}

td ul{
  margin-bottom: 40px;
}

td li{
  list-style-type: '\2728';
  margin-left: 20px;
}

td:first-child{
  padding-left: 20px;
}

td:last-child{
  text-align: center;
}
```

9. Create a Box Model using CSS Styles as shown below.

i)

CODE:

Index.html:

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

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Q9</title>
    <link rel="stylesheet" href="style.css">
</head>

<body>
    <h2>CSS Box Model</h2>
    <div class="margin">
        margin
        <div class="top">Top</div>
        <div class="left">Left</div>
        <div class="right">Right</div>
        <div class="bottom">Bottom</div>
    </div>
    <div class="border">border</div>
    <div class="padding">padding</div>
    <div class="element-content">Element Content</div>
</body>
```

```
</html>
```

Style.css:

```
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

body {
  background-color: aliceblue;
  height: 100vh;
  display: flex;
  max-width: 100vw;
  align-items: center;
  justify-content: center;
  font-size: 30px;
  font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
  color: aliceblue;
  text-shadow: 2px 2px 2px rgb(92, 91, 91);
}

h2{
  position: absolute;
  top: 10px;
  text-shadow: none;
  color: #999999;
}

.margin {
  background-color: rgb(64, 222, 228);
  height: 400px;
  width: 800px;
  position: absolute;
  /* z-index: 1; */
  padding-left: 100px;
  border: 4px solid #6897b9;
}

.top {
  display: inline-block;
  position: relative;
  z-index: 1;
  top: -45px;
  left: 180px;
  color: #686868;
  text-shadow: none;
}

.left {
  display: inline-block;
  color: #686868;
  text-shadow: none;
  position: relative;
```

```
  z-index: 1;
  top: 175px;
  left: -300px;
}

.right {
  display: inline-block;
  color: #686868;
  text-shadow: none;
  position: relative;
  z-index: 1;
  top: 175px;
  left: 505px;
}

.bottom {
  display: inline-block;
  color: #686868;
  text-shadow: none;
  position: relative;
  z-index: 1;
  top: 395px;
  left: -15px;
}

.border {
  background-color: rgb(255, 187, 0);
  height: 320px;
  width: 720px;
  position: absolute;
  /* z-index: 2; */
  padding-left: 130px;
  border: 4px solid #8d702e;
}

.padding {
  background-color: #d7cba9;
  height: 240px;
  width: 640px;
  position: absolute;
  /* z-index: 2; */
  padding-left: 160px;
  border: 4px solid #8d702e;
}

.element-content {
  background-color: #97c46e;
  height: 160px;
  width: 560px;
  position: absolute;
  padding-top: 55px;
  padding-left: 20px;
  /* z-index: 2; */
  border: 4px solid #45602c;
```

```
}
```

ii)

BoxModelHeirarchy.html:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" type="text/css" href="style1.css">
  <title>Css Box Model Heirarchy</title>
</head>
<body>
  <div class="container">
    <h3 style="position: relative; top: -50px;">CSS BOX MODEL HEIRARCHY</h3>
    <div class="margin">
      <div class="backgroundc">
        <div class="backgroundi">
          <div class="padding">
            <div class="content">
              Lorem ipsum dolor sit amet consectetur adipisicing elit. Optio dicta at quaerat cupiditate dignissimos, dolorum similique! Consequuntur repellat saepe dolorem, sed voluptatem asperiores ea laudantium quae, fugit blanditiis harum vel!
            </div>
          </div>
        </div>
      </div>

    </div>

  </div>

</body>
</html>
```

Style.css:

```
*{
  margin: 0;
  padding: 0;
  font-family: sans-serif;
}
.container{
  height: 100vh;
  width: 100%;
  flex-direction: column;
  display: flex;
  align-items: center;
  justify-content: center;
}
.margin{
  width: 35%;
  flex-direction: column;
```

```
  height: 50% ;
  border: 2px solid rgb(102 150 184);
  background-color: #cfe5ef;
  display: flex;
  justify-content: center;
  align-items: center;
/*  transform: skewX(10deg);*/
  transform: skewY(-8deg);
}
/*rotate3d(0, 12, -2, 41deg)*/
.backgroundc{
  width: 75%;
  height: 75%;
  transform: translate3d(10px, 0px, 0px);
  background-color: #4179af;
}
.backgroundi{
  width: 100%;
  height: 100%;
  background-image: url(skybg.jpg);
  background-size: cover;
  transform: translate(101px, 16px);
}
.padding{
  width: 100%;
  height: 100%;
  background-color: #cfe5ef;
  opacity: 0.5;
  border: 2px #231586 solid;
  transform: translate(101px, 6px);
}
.content{
  width: 100%;
  height: 100%;
  transform: translate(101px, 6px);
}
```

10. Design the following static web pages required for an online book store web site.
1) home page:
The static home page must contain three frames.
Top frame: Logo and the college name and links to Home page, Login page, Registration page, catalogue page and Cart page (the description of these pages will be given below).
Left frame: At least four links for navigation, which will display the catalogue of respective links.
Right frame: The pages to the links in the left frame must be loaded here. Initially this page contains description of the web site
CODE:

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

<head>
```

```
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script src="https://kit.fontawesome.com/01d3148803.js"
crossorigin="anonymous"></script>
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link href="https://fonts.googleapis.com/css2?family=Yeseva+One&display=swap"
rel="stylesheet">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link
href="https://fonts.googleapis.com/css2?family=Montserrat:wght@800&family=Yeseva+One
&display=swap"
        rel="stylesheet">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=swap"
rel="stylesheet">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link href="https://fonts.googleapis.com/css2?family=Lobster&display=swap"
rel="stylesheet">
    <link rel="stylesheet" href="../css/navbar-style.css">
    <link rel="stylesheet" href="../css/style.css">
    <link rel="stylesheet" href="../css/index.css">
    <title>ONLINE BOOK STORE</title>
</head>

<body>
    <div class="navbar">
        <div class="categories">
            <script src="https://cdn.lordicon.com/ritcuqlt.js"></script>
            <div class="lord-icon">
                <lord-icon src="https://cdn.lordicon.com/qvbrkejx.json" trigger="morph"
colors="primary:#fbeaeb"
                    state="morph">
                </lord-icon>
            </div>
            <div class="dropdown">
                <ul>
                    <a href="./CSE.html">
                        <li>CSE</li>
                    </a>
                    <a href="./ECE.html">
                        <li>ECE</li>
                    </a>
                    <a href="./EEE.html">
                        <li>EEE</li>
                    </a>
                    <a href="./Civil.html">
                        <li>Civil</li>
                    </a>
                </ul>
```

```
            </div>
        </div>
        <a href="index.html">
            <div class="logo">
                <img src="OIP.jpg" alt="NITW LOGO" class="logo-img">
                <h1 class="logo-name">ONLINE BOOK STORE</h1>
            </div>
        </a>
        <div class="navigation">
            <a href="login.html"><i class="fa-solid fa-user"></i></a>
            <a href="register.html"><i class="fa-solid fa-right-to-bracket"></i></a>
            <a href="cart.html"><i class="fa-solid fa-bag-shopping"></i></a>
        </div>
    </div>
    <!-- <hr> -->
    <div class="jumbotron">
        <div class="jumbo-text">
            <!-- Books/Journals/PDFs -->
            <div class="big-text">Your Hunt for
                <span class="changing-text">
                    <ul class="changing-text-content">
                        <li>
                            Books
                        </li>
                        <li>
                            Journals
                        </li>
                        <li>
                            Notebooks
                        </li>
                        <li>
                            Books
                        </li>
                    </ul>
                </span> <br><span class="wavy">Ends Here!</span>
            </div>
            <div class="small-text">
                <p>Get all your academic materials delivered to your hostel</p>
                <p>NITW E-Bookstore makes it all possible! Try it out 🙌</p>
                <a href="./catalouge.html"><button class="button">See Catalouge</button></a>
                <!-- <button></button> -->
            </div>
        </div>
        <img src="../images/illustrations/illustration.svg" alt="" class="jumbo-img">
    </div>
</body>

</html>
```

2) login page:
CODE:

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

```
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script src="https://kit.fontawesome.com/01d3148803.js"
crossorigin="anonymous"></script>
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link href="https://fonts.googleapis.com/css2?family=Yeseva+One&display=swap"
rel="stylesheet">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link
href="https://fonts.googleapis.com/css2?family=Montserrat:wght@800&family=Yeseva+One
&display=swap"
        rel="stylesheet">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=swap"
rel="stylesheet">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link href="https://fonts.googleapis.com/css2?family=Lobster&display=swap"
rel="stylesheet">
    <link rel="stylesheet" href="../css/navbar-style.css">
    <link rel="stylesheet" href="../css/style.css">
    <link rel="stylesheet" href="../css/login.css">
    <title>ONLINE BOOK STORE</title>
</head>

<body>
    <div class="navbar">
        <div class="categories">
            <script src="https://cdn.lordicon.com/ritcuqlt.js"></script>
            <div class="lord-icon">
                <lord-icon src="https://cdn.lordicon.com/qvbrkejx.json" trigger="morph"
colors="primary:#fbeaeb"
                    state="morph">
                </lord-icon>
            </div>
            <div class="dropdown">
                <ul>
                    <a href="./CSE.html">
                        <li>CSE</li>
                    </a>
                    <a href="./ECE.html">
                        <li>ECE</li>
                    </a>
                    <a href="./EEE.html">
                        <li>EEE</li>
                    </a>
```

```
                <a href="./Civil.html">
                    <li>Civil</li>
                </a>
            </ul>
        </div>
    </div>
    <a href="index.html">
        <div class="logo">
            <img src="OIP.jpg" alt="NITW LOGO" class="logo-img">
            <h1 class="logo-name">ONLINE BOOK STORE</h1>
        </div>
    </a>
    <div class="navigation">
        <a href="login.html"><i class="fa-solid fa-user"></i></a>
        <a href="register.html"><i class="fa-solid fa-right-to-bracket"></i></a>
        <a href="cart.html"><i class="fa-solid fa-bag-shopping"></i></a>
    </div>
</div>
<div class="login">
    <form action="#">
        <h1>Login</h1>
        <p>Please enter your credentials to login</p>
        <input type="text" name="username" id="username" placeholder="username">
        <input type="password" name="password" id="password" placeholder="password">
        <input type="button" value="LOGIN">
    </form>
</div>
</body>

</html>
```

3) catalogue page:
The catalogue page should contain the details of all the books available in the web site in a table.
The details should contain the following:
1. Snap shot of Cover Page.
2. Author Name.
3. Publisher.
4. Price.
5. Add to cart button.
CODE:

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

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script src="https://kit.fontawesome.com/01d3148803.js"
crossorigin="anonymous"></script>
    <link rel="stylesheet" href="navbar-style.css">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
```

```
    <link href="https://fonts.googleapis.com/css2?family=Yeseva+One&display=swap"
rel="stylesheet">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link
href="https://fonts.googleapis.com/css2?family=Montserrat:wght@800&family=Yeseva+One
&display=swap"
        rel="stylesheet">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=swap"
rel="stylesheet">
    <link rel="stylesheet" href="../css/navbar-style.css">
    <link rel="stylesheet" href="../css/style.css">
    <!-- <link rel="stylesheet" href="../css/index.css"> -->
    <link rel="stylesheet" href="../css/catalouge.css">
    <title>ONLINE BOOK STORE</title>
</head>

<body>
    <div class="navbar">
        <div class="categories">
            <script src="https://cdn.lordicon.com/ritcuqlt.js"></script>
            <div class="lord-icon">
                <lord-icon src="https://cdn.lordicon.com/qvbrkejx.json" trigger="morph"
colors="primary:#2f3c7e"
                    state="morph">
                </lord-icon>
            </div>
            <div class="dropdown">
                <ul>
                    <a href="./CSE.html">
                        <li>CSE</li>
                    </a>
                    <a href="./ECE.html">
                        <li>ECE</li>
                    </a>
                    <a href="./EEE.html">
                        <li>EEE</li>
                    </a>
                    <a href="./Civil.html">
                        <li>Civil</li>
                    </a>
                </ul>
            </div>
        </div>
        <a href="index.html">
            <div class="logo">
                <img src="ttt.jpg" alt="NITW LOGO" class="logo-img">
                <h1 class="logo-name">ONLINE BOOK STORE</h1>
            </div>
        </a>
        <div class="navigation">
            <a href="login.html"><i class="fa-solid fa-user"></i></a>
```

```
        <a href="register.html"><i class="fa-solid fa-right-to-bracket"></i></a>
        <a href="cart.html"><i class="fa-solid fa-bag-shopping"></i></a>
    </div>
</div>
<hr class="hr">
<section class="catalouge" style="margin-top: calc(50px + 75px);">
    <div class="catalouge-item">
        <div class="catalouge-item-image">
            <img src="../images/books/clrs.jpg" alt="">
        </div>
        <hr>
        <div class="catalouge-item-details">
            <h1 class="name">Introduction To Algorithms</h1>
            <p class="author">Cormen, Lierson, Rivest and Stein</p>
            <!-- <p class="publisher">Publisher</p> -->
            <p class="price">&#8377;980</p>
        </div>
        <a href=""><button class="button">Add to Cart</button></a>
    </div>
    <div class="catalouge-item">
        <div class="catalouge-item-image">
            <img src="../images/books/book2.jpg" alt="">
        </div>
        <hr>
        <div class="catalouge-item-details">
            <h1 class="name">Discrete Math & its Applications</h1>
            <p class="author">Kenneth H. Rosen</p>
            <!-- <p class="publisher">Publisher</p> -->
            <p class="price">&#8377;799</p>
        </div>
        <a href=""><button class="button">Add to Cart</button></a>
    </div>
    <div class="catalouge-item">
        <div class="catalouge-item-image">
            <img src="../images/books/book3.jpg" alt="">
        </div>
        <hr>
        <div class="catalouge-item-details">
            <h1 class="name">Godel, Escher and Bach</h1>
            <p class="author">Douglas R. Hofstader</p>
            <!-- <p class="publisher">Publisher</p> -->
            <p class="price">&#8377;649</p>
        </div>
        <a href=""><button class="button">Add to Cart</button></a>
    </div>
    <div class="catalouge-item">
        <div class="catalouge-item-image">
            <img src="../images/books/book4.jpg" alt="">
        </div>
        <hr>
        <div class="catalouge-item-details">
            <h1 class="name">Cracking the Coding Interview</h1>
            <p class="author">Gayle McDowel</p>
            <!-- <p class="publisher">Publisher</p> -->
            <p class="price">&#8377;578</p>
```

```
    </div>
    <a href=""><button class="button">Add to Cart</button></a>
</div>
<div class="catalouge-item">
    <div class="catalouge-item-image">
        <img src="../images/books/book5.jpg" alt="">
    </div>
    <hr>
    <div class="catalouge-item-details">
        <h1 class="name">Mindf*ck</h1>
        <p class="author">Chrystopher Wylie</p>
        <!-- <p class="publisher">Publisher</p> -->
        <p class="price">&#8377;755</p>
    </div>
    <a href=""><button class="button">Add to Cart</button></a>
</div>
<div class="catalouge-item">
    <div class="catalouge-item-image">
        <img src="../images/books/book6.jpg" alt="">
    </div>
    <hr>
    <div class="catalouge-item-details">
        <h1 class="name">The Hundred Page ML Book</h1>
        <p class="author">Andriy Burkov</p>
        <!-- <p class="publisher">Publisher</p> -->
        <p class="price">&#8377;240</p>
    </div>
    <a href=""><button class="button">Add to Cart</button></a>
</div>
<div class="catalouge-item">
    <div class="catalouge-item-image">
        <img src="../images/books/book7.jpg" alt="">
    </div>
    <hr>
    <div class="catalouge-item-details">
        <h1 class="name">Core Java Made Simple</h1>
        <p class="author">Som Prakash Rai</p>
        <!-- <p class="publisher">Publisher</p> -->
        <p class="price">&#8377;426</p>
    </div>
    <a href=""><button class="button">Add to Cart</button></a>
</div>
<div class="catalouge-item">
    <div class="catalouge-item-image">
        <img src="../images/books/clrs.jpg" alt="">
    </div>
    <hr>
    <div class="catalouge-item-details">
        <h1 class="name">Introduction To Algorithms</h1>
        <p class="author">Cormen, Lierson, Rivest and Stein</p>
        <!-- <p class="publisher">Publisher</p> -->
        <p class="price">&#8377;1000</p>
    </div>
    <a href=""><button class="button">Add to Cart</button></a>
</div>
```

```
        <div class="catalouge-item">
            <div class="catalouge-item-image">
                <img src="../images/books/clrs.jpg" alt="">
            </div>
            <hr>
            <div class="catalouge-item-details">
                <h1 class="name">Introduction To Algorithms</h1>
                <p class="author">Cormen, Lierson, Rivest and Stein</p>
                <!-- <p class="publisher">Publisher</p> -->
                <p class="price">&#8377;1000</p>
            </div>
            <a href=""><button class="button">Add to Cart</button></a>
        </div>
    </section>
    <script>
        let authors = document.querySelectorAll('.author');
        authors.forEach(author => {
            if (author.innerText.length > 23) author.innerText = author.innerText.slice(0, 20) + '...'
        })
    </script>
</body>

</html>
```

4) cart page:
The cart page contains the details about the books which are added to the cart.
CODE:

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

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script src="https://kit.fontawesome.com/01d3148803.js"
crossorigin="anonymous"></script>
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link href="https://fonts.googleapis.com/css2?family=Yeseva+One&display=swap"
rel="stylesheet">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link
href="https://fonts.googleapis.com/css2?family=Montserrat:wght@800&family=Yeseva+One
&display=swap"
        rel="stylesheet">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=swap"
rel="stylesheet">
```

```
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link href="https://fonts.googleapis.com/css2?family=Lobster&display=swap"
rel="stylesheet">
    <link rel="stylesheet" href="../css/navbar-style.css">
    <link rel="stylesheet" href="../css/style.css">
    <!-- <link rel="stylesheet" href="../css/catalouge.css"> -->
    <link rel="stylesheet" href="../css/cart.css">
    <title>ONLINE BOOK STORE</title>
</head>

<body>
    <div class="navbar">
        <div class="categories">
            <script src="https://cdn.lordicon.com/ritcuqlt.js"></script>
            <div class="lord-icon">
                <lord-icon src="https://cdn.lordicon.com/qvbrkejx.json" trigger="morph"
colors="primary:#2f3c7e"
                    state="morph">
                </lord-icon>
            </div>
            <div class="dropdown">
                <ul>
                    <a href="./CSE.html">
                        <li>CSE</li>
                    </a>
                    <a href="./ECE.html">
                        <li>ECE</li>
                    </a>
                    <a href="./EEE.html">
                        <li>EEE</li>
                    </a>
                    <a href="./Civil.html">
                        <li>Civil</li>
                    </a>
                </ul>
            </div>
        </div>
        <a href="index.html">
            <div class="logo">
                <img src="OIP.jpg" alt="NITW LOGO" class="logo-img">
                <h1 class="logo-name">ONLINE BOOK STORE</h1>
            </div>
        </a>
        <div class="navigation">
            <a href="login.html"><i class="fa-solid fa-user"></i></a>
            <a href="register.html"><i class="fa-solid fa-right-to-bracket"></i></a>
            <a href="cart.html"><i class="fa-solid fa-bag-shopping"></i></a>
        </div>
    </div>
    <hr class="hr">
    <div class="cart">
        <div class="cart-item">
            <div class="cart-item-img"><img src="../images/books/book2.jpg" alt=""></div>
            <div class="cart-item-details">
```

```
            <h1 class="name">Discrete Math & Its Applications</h1>
            <p class="author">Kenneth H. Rosen</p>
            <p class="price">Price - &#8377;799</p>
            <p class="quantity">Quantity - 10</p>
        </div>
    </div>
    <hr class="sep">
    <div class="cart-item">
        <div class="cart-item-img"><img src="../images/books/clrs.jpg" alt=""></div>
        <div class="cart-item-details">
            <h1 class="name">Introduction To Algorithms</h1>
            <p class="author">Cormen, Lierson, Rivest and Stein</p>
            <p class="price">Price - &#8377;980</p>
            <p class="quantity">Quantity - 2</p>
        </div>
    </div>
    <hr class="sep">
    <div class="cart-item">
        <div class="cart-item-img"><img src="../images/books/book4.jpg" alt=""></div>
        <div class="cart-item-details">
            <h1 class="name">Cracking The Coding Interview</h1>
            <p class="author">Gayle McDowel</p>
            <p class="price">Price - &#8377;578</p>
            <p class="quantity">Quantity - 5</p>
        </div>
        <!-- <hr> -->
    </div>
    <!-- <hr class="sep"> -->
  </div>
</body>

</html>
```

5) registration page:
Create a “registration form “with the following fields
1) Name (Text field)
2) Password (password field)
3) E-mail id (text field)
4) Phone number (text field)
5) Sex (radio button)
6) Date of birth (3 select boxes)
7) Languages known (check boxes – English, Telugu, Hindi, Tamil)
8) Address (text area)

CODE:

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

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <script src="https://kit.fontawesome.com/01d3148803.js"
crossorigin="anonymous"></script>
```

```
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link href="https://fonts.googleapis.com/css2?family=Yeseva+One&display=swap"
rel="stylesheet">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link
href="https://fonts.googleapis.com/css2?family=Montserrat:wght@800&family=Yeseva+One
&display=swap"
        rel="stylesheet">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=swap"
rel="stylesheet">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link href="https://fonts.googleapis.com/css2?family=Lobster&display=swap"
rel="stylesheet">
    <link rel="stylesheet" href="../css/navbar-style.css">
    <link rel="stylesheet" href="../css/style.css">
    <link rel="stylesheet" href="../css/registration.css">
    <script src="../../q11/registration.js"></script>
    <title>ONLINE BOOK STORE</title>
</head>

<body>
    <div class="navbar">
        <div class="categories">
            <script src="https://cdn.lordicon.com/ritcuqlt.js"></script>
            <div class="lord-icon">
                <lord-icon src="https://cdn.lordicon.com/qvbrkejx.json" trigger="morph"
colors="primary:#fbeaeb"
                    state="morph">
                </lord-icon>
            </div>
            <div class="dropdown">
                <ul>
                    <a href="./CSE.html">
                        <li>CSE</li>
                    </a>
                    <a href="./ECE.html">
                        <li>ECE</li>
                    </a>
                    <a href="./EEE.html">
                        <li>EEE</li>
                    </a>
                    <a href="./Civil.html">
                        <li>Civil</li>
                    </a>
                </ul>
            </div>
        </div>
        <a href="index.html">
            <div class="logo">
```

```
            <img src="OIP.jpg" alt="NITW LOGO" class="logo-img">
            <h1 class="logo-name">ONLINE BOOK STORE</h1>
        </div>
    </a>
    <div class="navigation">
        <a href="login.html"><i class="fa-solid fa-user"></i></a>
        <a href="register.html"><i class="fa-solid fa-right-to-bracket"></i></a>
        <a href="cart.html"><i class="fa-solid fa-bag-shopping"></i></a>
    </div>
</div>
<form action="./register.html" class="registration-form">
    <h1>Please Enter your details</h1>
    <table>
        <tr>
            <td>
                <label for="name">Name*:</label>
            </td>
            <td>
                <input type="text" name="name" id="name" required>
            </td>
        </tr>
        <tr>
            <td>
                <label for="email">Email*:</label>
            </td>
            <td><input type="email" name="email" id="email" required></td>
        </tr>
        <tr>
            <td>
                <label for="phone">Phone No*:</label>
            </td>
            <td><input type="number" name="phone" id="phone" required></td>
        </tr>
        <tr>
            <td>
                <label for="uid">User ID*:</label>
            </td>
            <td><input type="text" name="uid" id="username" required></td>
        </tr>
        <tr>
            <td>
                <label for="pass">Password*:</label>
            </td>
            <td><input type="password" name="pass" id="password" required></td>
        </tr>
        <tr>
            <td>
                <p>Gender:</p>
            </td>
            <td>
                <span style="display: grid; grid-template-columns: 1fr 2fr; margin: 10px 0;">
                    <input type="radio" id="male" name="fav_language" value="Male"
checked="checked">
                    <label for="html">Male</label>
                </span>
```

```
                <span style="display: grid; grid-template-columns: 1fr 2fr; margin: 10px 0;">
                    <input type="radio" id="female" name="fav_language" value="Female">
                    <label for="css">Female</label>
                </span>
            </td>
        </tr>
        <tr>
            <td><label for="dob">Date of Birth*:</label></td>
            <td><input type="date" name="dob" id="dob" required></td>
        </tr>
        <tr>
            <td><label for="dob">Languages Known*:</label></td>
            <td style="display: grid; grid-template-columns: 1fr 2fr; grid-gap: 10px;">
                <input type="checkbox" id="english" name="english" value="english">
                <label for="english">English</label>
                <input type="checkbox" id="telegu" name="telegu" value="telegu">
                <label for="telegu">Telegu</label>
                <input type="checkbox" id="hindi" name="hindi" value="hindi">
                <label for="hindi">Hindi</label>
            </td>
        </tr>
        <tr>
            <td><label for="address1">Address*:</label></td>
            <td><textarea name="address1" id="" cols="30" rows="10"
required></textarea></td>
        </tr>
    </table>
    <div class="center">
        <input type="button" value="Register" onclick="validate()">
        <input type="reset" value="Reset">
    </div>
</form>
</body>

</html>
```

CODE OF SUBJECTS and Books:
Civil.html:

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

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script src="https://kit.fontawesome.com/01d3148803.js"
crossorigin="anonymous"></script>
    <link rel="stylesheet" href="navbar-style.css">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link href="https://fonts.googleapis.com/css2?family=Yeseva+One&display=swap"
rel="stylesheet">
    <link rel="preconnect" href="https://fonts.googleapis.com">
```

```
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link
href="https://fonts.googleapis.com/css2?family=Montserrat:wght@800&family=Yeseva+One
&display=swap"
        rel="stylesheet">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link
href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500&display=swap"
rel="stylesheet">
    <link rel="stylesheet" href="../css/navbar-style.css">
    <link rel="stylesheet" href="../css/style.css">
    <!-- <link rel="stylesheet" href="../css/index.css"> -->
    <link rel="stylesheet" href="../css/catalouge.css">
    <title>ONLINE BOOK STORE</title>
</head>

<body>
    <div class="navbar">
        <div class="categories">
            <script src="https://cdn.lordicon.com/ritcuqlt.js"></script>
            <div class="lord-icon">
                <lord-icon src="https://cdn.lordicon.com/qvbrkejx.json" trigger="morph"
colors="primary:#2f3c7e"
                    state="morph">
                </lord-icon>
            </div>
            <div class="dropdown">
                <ul>
                    <a href="./CSE.html">
                        <li>CSE</li>
                    </a>
                    <a href="./ECE.html">
                        <li>ECE</li>
                    </a>
                    <a href="./EEE.html">
                        <li>EEE</li>
                    </a>
                    <a href="./Civil.html">
                        <li>Civil</li>
                    </a>
                </ul>
            </div>
        </div>
        <a href="index.html">
            <div class="logo">
                <img src="OIP.jpg" alt="NITW LOGO" class="logo-img">
                <h1 class="logo-name">ONLINE BOOK STORE</h1>
            </div>
        </a>
        <div class="navigation">
            <a href="login.html"><i class="fa-solid fa-user"></i></a>
            <a href="register.html"><i class="fa-solid fa-right-to-bracket"></i></a>
            <a href="cart.html"><i class="fa-solid fa-bag-shopping"></i></a>
        </div>
```

```
</div>
<hr class="hr">
<h1 class="book-category">Books For Civil</h1>
<section class="catalouge">
   <div class="catalouge-item">
      <div class="catalouge-item-image">
         <img src="../images/books/clrs.jpg" alt="">
      </div>
      <hr>
      <div class="catalouge-item-details">
         <h1 class="name">Introduction To Algorithms</h1>
         <p class="author">Cormen, Lierson, Rivest and Stein</p>
         <!-- <p class="publisher">Publisher</p> -->
         <p class="price">&#8377;980</p>
      </div>
      <a href=""><button class="button">Add to Cart</button></a>
   </div>
   <div class="catalouge-item">
      <div class="catalouge-item-image">
         <img src="../images/books/book2.jpg" alt="">
      </div>
      <hr>
      <div class="catalouge-item-details">
         <h1 class="name">Discrete Math & its Applications</h1>
         <p class="author">Kenneth H. Rosen</p>
         <!-- <p class="publisher">Publisher</p> -->
         <p class="price">&#8377;799</p>
      </div>
      <a href=""><button class="button">Add to Cart</button></a>
   </div>
   <div class="catalouge-item">
      <div class="catalouge-item-image">
         <img src="../images/books/book3.jpg" alt="">
      </div>
      <hr>
      <div class="catalouge-item-details">
         <h1 class="name">Godel, Escher and Bach</h1>
         <p class="author">Douglas R. Hofstader</p>
         <!-- <p class="publisher">Publisher</p> -->
         <p class="price">&#8377;649</p>
      </div>
      <a href=""><button class="button">Add to Cart</button></a>
   </div>
   <div class="catalouge-item">
      <div class="catalouge-item-image">
         <img src="../images/books/book4.jpg" alt="">
      </div>
      <hr>
      <div class="catalouge-item-details">
         <h1 class="name">Cracking the Coding Interview</h1>
         <p class="author">Gayle McDowel</p>
         <!-- <p class="publisher">Publisher</p> -->
         <p class="price">&#8377;578</p>
      </div>
      <a href=""><button class="button">Add to Cart</button></a>
```

```
</div>
<div class="catalouge-item">
    <div class="catalouge-item-image">
        <img src="../images/books/book5.jpg" alt="">
    </div>
    <hr>
    <div class="catalouge-item-details">
        <h1 class="name">Mindf*ck</h1>
        <p class="author">Chrystopher Wylie</p>
        <!-- <p class="publisher">Publisher</p> -->
        <p class="price">&#8377;755</p>
    </div>
    <a href=""><button class="button">Add to Cart</button></a>
</div>
<div class="catalouge-item">
    <div class="catalouge-item-image">
        <img src="../images/books/book6.jpg" alt="">
    </div>
    <hr>
    <div class="catalouge-item-details">
        <h1 class="name">The Hundred Page ML Book</h1>
        <p class="author">Andriy Burkov</p>
        <!-- <p class="publisher">Publisher</p> -->
        <p class="price">&#8377;240</p>
    </div>
    <a href=""><button class="button">Add to Cart</button></a>
</div>
<div class="catalouge-item">
    <div class="catalouge-item-image">
        <img src="../images/books/book7.jpg" alt="">
    </div>
    <hr>
    <div class="catalouge-item-details">
        <h1 class="name">Core Java Made Simple</h1>
        <p class="author">Som Prakash Rai</p>
        <!-- <p class="publisher">Publisher</p> -->
        <p class="price">&#8377;426</p>
    </div>
    <a href=""><button class="button">Add to Cart</button></a>
</div>
<div class="catalouge-item">
    <div class="catalouge-item-image">
        <img src="../images/books/clrs.jpg" alt="">
    </div>
    <hr>
    <div class="catalouge-item-details">
        <h1 class="name">Introduction To Algorithms</h1>
        <p class="author">Cormen, Lierson, Rivest and Stein</p>
        <!-- <p class="publisher">Publisher</p> -->
        <p class="price">&#8377;1000</p>
    </div>
    <a href=""><button class="button">Add to Cart</button></a>
</div>
<div class="catalouge-item">
    <div class="catalouge-item-image">
```

```
            <img src="../images/books/clrs.jpg" alt="">
        </div>
        <hr>
        <div class="catalouge-item-details">
            <h1 class="name">Introduction To Algorithms</h1>
            <p class="author">Cormen, Lierson, Rivest and Stein</p>
            <!-- <p class="publisher">Publisher</p> -->
            <p class="price">&#8377;1000</p>
        </div>
        <a href=""><button class="button">Add to Cart</button></a>
    </div>
</section>
<script>
    let authors = document.querySelectorAll('.author');
    authors.forEach(author => {
        if (author.innerText.length > 23) author.innerText = author.innerText.slice(0, 20) + '...'
    })
</script>
</body>

</html>
```

11. Write JavaScript to validate the following fields of the above registration page.
a. Name (Name should contains alphabets and the length should not be less than 6 Characters).
b. Password (Password should not be less than 6 characters length).
c. E-mail id (should not contain any invalid and must follow the standard pattern name@domain.com)
d. Phone number (Phone number should contain 10 digits only).

CODE:
Form.html:

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

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Registration</title>
    <link rel="stylesheet" href="Q2style.css">
</head>
<body>
  <script>

    function validate() {
      let full_name = document.querySelector("#name").value;
      let email = document.querySelector("#email").value;
```

```
    let phone = document.querySelector("#phone").value;
    let username = document.querySelector("#username").value;
    let password = document.querySelector("#password").value;

    const nameRegex = /^[a-zA-Z]+ [a-zA-Z]+$/;
    if (nameRegex.test(full_name) == false) alert("Invalid name");
    const emailRegex = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/;
    if (emailRegex.test(email) === false) alert("invalid email");
    const phoneRegex = /^[6-9]\d{9}$/;
    if (phoneRegex.test(phone) === false) alert("Invalid phone number");
    const usernameRegex = /^[a-zA-Z0-9]+([._]?[a-zA-Z0-9]+)*$/;
    if (usernameRegex.test(username) === false) alert("Invalid username");
    const passwordRegex = /^(?=.*[a-z])(?=.*[A-Z])(?=.*\d)[a-zA-Z\d]{8,}$/;
    if (passwordRegex.test(password) === false) alert("Invalid password");

    const checkboxes = document.querySelectorAll("input[type=checkbox]");
    const checkboxLength = checkboxes.length;

    function isChecked() {
      for (let i = 0; i < checkboxLength; i++) {
        if (checkboxes[i].checked) return true;
      }

      return false;
    }

    if(isChecked() === false) alert('Please select atleast one language')
  }
</script>
  <h1 align="center">Student Registration Form</h1>
  <form action="#">
      <fieldset>
          <legend>Basic Information</legend>
          <table>
              <tr>
                  <td>
                      <label for="fname">First Name*:</label>
                  </td>
                  <td>
                      <input type="text" name="fname" id="" required>
                      <span class="ml">
                          <label for="mname">Middle Name:</label>
                          <input type="text" name="mname" id="">
                      </span>
                      <span class="ml">
                          <label for="lname">Last Name*:</label>
                          <input type="text" name="lname" id="" required>
                      </span>
                  </td>
              </tr>
              <tr>
                  <td>
                      <label for="roll">Roll No*:</label>
                  </td>
                  <td><input type="text" name="roll" id="" required></td>
```

```
</tr>
<tr>
    <td>
        <label for="email">Email*:</label>
    </td>
    <td><input type="email" name="email" id="" required></td>
</tr>
<tr>
    <td>
        <label for="phone">Phone No*:</label>
    </td>
    <td><input type="number" name="phone" id="" required></td>
</tr>
<tr>
    <td>
        <label for="uid">User ID*:</label>
    </td>
    <td><input type="text" name="uid" id="" required></td>
</tr>
<tr>
    <td>
        <label for="pass">Password*:</label>
    </td>
    <td><input type="password" name="pass" id="" required></td>
</tr>
<tr>
    <td>
        <label for="rpass">Re-enter Password*:</label>
    </td>
    <td><input type="password" name="rpass" id="" required></td>
</tr>
<tr>
    <td>
        <label for="branch">Branch*:</label>
    </td>
    <td>
        <select name="branch" id="">
            <option value="CSE">CSE</option>
            <option value="ECE">ECE</option>
            <option value="EEE">EEE</option>
            <option value="Mechanical">Mechanical</option>
        </select>
    </td>
</tr>
<tr>
    <td>
        <label for="yos">Year of Study*:</label>
    </td>
    <td>
        <select name="yos" id="">
            <option value="first">first</option>
            <option value="second">second</option>
            <option value="third">third</option>
        </select>
    </td>
```

```
            </tr>
            <tr>
                <td><label for="photo">Upload Photo*:</label></td>
                <td><input type="file" name="photo" id=""></td>
            </tr>
        </table>
    </fieldset>
    <fieldset>
        <legend>Personal Details</legend>
        <table>
            <tr>
                <td><label for="father-name">Father's Name*:</label></td>
                <td><input type="text" name="father-name" id="" required></td>
                <td><label for="father-contact">Contact No*:</label></td>
                <td><input type="text" name="father-contact" id="" required></td>
            </tr>
            <tr>
                <td><label for="mother-name">Mother's Name*:</label></td>
                <td><input type="text" name="mother-name" id="" required></td>
                <td><label for="mother-contact">Contact No*:</label></td>
                <td><input type="text" name="mother-contact" id="" required></td>
            </tr>
            <tr>
                <td><label for="dob">Date of Birth*:</label></td>
                <td><input type="date" name="dob" id="" required></td>
            </tr>
            <tr>
                <td><label for="aadhar">Aadhar No*:</label></td>
                <td><input type="text" name="aadhar" id="" required></td>
            </tr>
        </table>
    </fieldset>
    <fieldset>
        <legend>Address</legend>
        <table>
            <tr>
                <td><label for="address1">Address 1*:</label></td>
                <td><textarea name="address1" id="" cols="30" rows="10"
required></textarea></td>
            </tr>
            <tr>
                <td><label for="address2">Address 2*:</label></td>
                <td><textarea name="address2" id="" cols="30" rows="10"
required></textarea></td>
            </tr>
        </table>
    </fieldset>
    <div class="center">
        <button value="Register"> </button>
        <input type="button" value="Reset">
    </div>
  </form>
</body>

</html>
```

Registration.js:

```
function validate() {
  // Get the values from the input fields
  const name = document.getElementById('name').value;
  const password = document.getElementById('password').value;
  const email = document.getElementById('email').value;
  const phoneNumber = document.getElementById('phone').value;

  // Regular expressions for validation
  const nameRegex = /^[a-zA-Z]{6,}$/;
  const passwordRegex = /^.{6,}$/;
  const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
  const phoneNumberRegex = /^[0-9]{10}$/;

  // Validate the name field
  if (!nameRegex.test(name)) {
    alert('Name should contain only alphabets and be at least 6 characters long.');
    return false;
  }

  // Validate the password field
  if (!passwordRegex.test(password)) {
    alert('Password should be at least 6 characters long.');
    return false;
  }

  // Validate the email field
  if (!emailRegex.test(email)) {
    alert('Please enter a valid email address.');
    return false;
  }

  // Validate the phone number field
  if (!phoneNumberRegex.test(phoneNumber)) {
    alert('Phone number should contain 10 digits only.');
    return false;
  }

  // If all fields are valid, return true
  return true;
}
const address = document.getElementById('address').value;
const city = document.getElementById('city').value;
const state = document.getElementById('state').value;
const zip = document.getElementById('zip').value;

function validateRegistrationForm() {
  // Get the values from the input fields
  const name = document.getElementById('name').value;
  const password = document.getElementById('password').value;
  const email = document.getElementById('email').value;
  const phoneNumber = document.getElementById('phone').value;
```

```
  // Regular expressions for validation
  const nameRegex = /^[a-zA-Z]{6,}$/;
  const passwordRegex = /^.{6,}$/;
  const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
  const phoneNumberRegex = /^[0-9]{10}$/;

  // Validate the name field
  if (!nameRegex.test(name)) {
    alert('Name should contain only alphabets and be at least 6 characters long.');
    return false;
  }

  // Validate the password field
  if (!passwordRegex.test(password)) {
    alert('Password should be at least 6 characters long.');
    return false;
  }

  // Validate the email field
  if (!emailRegex.test(email)) {
    alert('Please enter a valid email address.');
    return false;
  }

  // Validate the phone number field
  if (!phoneNumberRegex.test(phoneNumber)) {
    alert('Phone number should contain 10 digits only.');
    return false;
  }

  // If all fields are valid, return true
  return true;
}
```

12. You will create several files related to a recipe web site for a fictional pie company named
Granny's Pies. You need to turn in the following files:
• index.html, the first of two web pages (with an optional CSS style sheet file)
• pie.html, the second of two web pages
• recipe.css, the style sheet for pie.html
The first part of your task is to create a front page (README) for this web site, stored in a file
named index.html. Your front page must contain a link to pie.html. The file must also be at least 20
lines long and must contain at least 4 different XHTML elements in its body. It also may not significantly borrow content from your pie.html. Otherwise, this front page can have any appearance you like. If you like, you may use an optional CSS style sheet with this page named index.css and submit it with your other files.
The second (and more substantial) part of the assignment is to recreate a specific web page describing a recipe for lemon meringue pie, stored in a file named pie.html. Unlike index.html, this
page is rigidly specified and must exactly match the appearance specified in this document. For full credit, your files must be uploaded to our web server and must match several stylistic

guidelines, all specified in the following sections.
CODE:
Index.html:

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

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Q.12</title>
    <style>
        * {
            margin: 0;
            /* padding: 0; */
        }

        body {
            background-color: rgb(215, 229, 250);
            font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
            margin: 0;
            padding: 20px 40px;
            font-size: 20px;
        }

        h1 {
            color: green;
            margin: 0 0 20px 0;
            font-size: 40px;
        }

        .desc {
            text-align: center;
            margin-bottom: 40px;
        }

        .desc p {
            font-size: 20px;
        }

        h3{
            font-size: 30px;
        }
    </style>
</head>

<body>
    <div class="desc">
        <h1>STRAWBERRY CAKES</h1>
        <p>Strawberry-scented cake is simply irresistible slathered with your favorite frosting
            or layered in whipped cream and strawberries.</p>

    </div>
    <h3>Nutrition Facts</h3>
```

```
    <p><b>Amount Per</b> 100 grams</p>
    <p><b>Calories</b> 371</p>
    <p>% Daily Value*</p>
    <ul>
        <li><b>Total Fat 15 g</b> 23%</li>
        <li><b>Saturated fat 5 g</b> 25%
        </li>
        <li><b>Polyunsaturated fat 2.8 g</b> </li>
        <li><b>Monounsaturated fat </b>6 g </li>
        <li><b>Cholesterol 58 mg</b> 19%</li>

        <li><b>Sodium 315 mg </b>13%</li>
        <li><b>Potassium 140 mg</b> 4%</li>
        <li><b>Total Carbohydrate 53 g</b> 17%</li>
        <li><b>Dietary fiber 1.6 g</b> 6%</li>
        <li><b>Protein 5 g</b> 10%</li>
        <li><b>Vitamin A</b> 2%</li>
        <li><b>Vitamin C</b> 0%</li>
        <li><b>Calcium</b> 6% </li>
        <li><b>Iron</b> 8%</li>
        <li><b>Vitamin D</b> 0% </li>
        <l><b>Vitamin B-6</b> 0%</li>
            <li><b>Vitamin B-12</b> 3% </li>
            <li><b>Magnesium</b> 8%</li>
    </ul>
    <div>*Per cent Daily Values are based on a 2,000 calorie diet. Your daily
        values may be higher or lower depending on your calorie needs.</div>
    <p>
        <a href="pie.html"> Click here for the recipe </a>
    </p>
</body>

</html>
```

Pie.html:

```
<html>

<head>
    <title>CAKE</title>
    <link href="recipe.css" rel="stylesheet" type="text/css">
    <style>
        * {
            margin: 0;
            /* padding: 0; */
        }

        *::-webkit-scrollbar {
            display: none;
        }

        body {
            background-color: rgb(242, 250, 215);
            font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
            margin: 0;
```

```
            padding: 20px 40px;
            font-size: 20px;
        }

        h1 {
            text-align: center;
            color: green;
            margin: 0 0 20px 0;
            font-size: 40px;
        }

        #d {
            margin: auto;
            width: 50%;
            display: flex;
            justify-content: space-around;
        }

        hr {
            margin-top: 20px;
        }

        h2 {
            background-color: beige;
            padding: 20px;
            margin-bottom: 20px;
        }

        .comment{
            background-color: aliceblue;
            width: 80%;
            margin: 20px 20px;
            padding: 15px;
            border-radius: 10px;
        }
    </style>
</head>

<body>
    <h1>STRAWBERRY CAKE</h1>
    <div id="d">
        <img src="chef.webp" height="250" />
        <img src="s.webp" height="250px" />
    </div>
    <p><b>Preparation Time : </b>16-20 minutes</p>
    <p><b>Cooking time :</b> 21-25 minutes</p>
    <p><b>Servings :</b> 4</p>
    <hr />
    <h2>INGREDIENTS</h2>
    <ul>
        <li>1 1/2 cup(s) sifted cake flour</li>
        <li>1 1/2 teaspoon(s) baking powder</li>
        <li>1/4 teaspoon(s) salt</li>
        <li>1/2 cup(s) (1 stick) unsalted butter, softeneds</li>
```

```
    <li>1 cup(s) sugar</li>
    <li>2 large eggs, room temperature</li>
    <li>1/2 teaspoon(s) vanilla extract</li>
    <li>Milk 3/4 cup</li>
    <li>1/2 cup(s) whole milk </li>
</ul>
<hr />
<h2>DIRECTIONS</h2>
<ol type="1">
    <li>
        <h3>Step 1:</h3>
        <ul type="circle">
            <li>Grate strawberry.</li>
            <li>Cut the butter into cubes.</li>
            <li> Grease a Microwave proof dish.</li>
            <li>Melt butter and strawberry in a Microwave proof bowl in the Microwave
                oven for one minute on Microwave HIGH (100%).</li>
        </ul>
    </li>
    <li>
        <h3>Step 2:</h3>
        <ul type="circle">
            <li>In another bowl sieve refined flour and baking powder.</li>
            <li> Mix the melted butter and strawberry well.</li>
        </ul>
    </li>
    <li>
        <h3>Step 3:</h3>
        <ul type="circle">
            <li>Add powdered sugar, strawberry essence and mix.</li>
            <li> Add the flour mixture and mix. </li>
            <li>Correct the consistency by adding milk.</li>
            <li>Add walnuts and mix gently.</li>
        </ul>
    </li>
    <li>
        <h3>Step 4:</h3>
        <ul type="circle">
            <li>Transfer the mixture into the greased Microwave proof dish. </li>
            <li>Bake in the Microwave at HIGH (100%) for seven minutes.</li>
        </ul>
    </li>
    <li>
        <h3>Step 5:</h3>
        <ul type="circle">
            <li>Allow standing time of five minutes.</li>
            <li> Cool, slice and serve.</li>
        </ul>
    </li>
</ol>
<hr />
<h2><u>USER COMMENTS</u></h2>
<div class="comments">
    <div class="comment">
        <i>This is a very good recipe to follow as it is sweet and simple.
```

```
            This delicious cake can be enjoyed by the vegeterians too.</i>
            <p><b>-Sujata Kumari </b></p>
        </div>
        <div class="comment">
            <i>Strawberry cake is the very best. I love Strawberries :) </i>
            <p><b>-Nandi</b></p>
        </div>
    </div>
    <h2>LINKS</h2>
    <p><a href="index.html">Home</a></p>
</body>

</html>
```

13. Build a Calculator using HTML form elements and JavaScript.

CODE:

Index.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>🖩</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <h1 style="margin-top: 0;">CALCULATOR</h1>
  <div class="container">
    <div id="display">0</div>
    <div class="buttons">
      <div class="button">1</div>
      <div class="button">2</div>
      <div class="button">3</div>
      <div class="button">C</div>
      <div class="button">4</div>
      <div class="button">5</div>
      <div class="button">6</div>
      <div class="button">-</div>
      <div class="button">7</div>
      <div class="button">8</div>
      <div class="button">9</div>
      <div class="button">&times;</div>
      <div class="button equals">=</div>
      <div class="button">0</div>
      <div class="button">+</div>
    </div>
  </div>
  <script src="index.js"></script>
</body>
```

```
</html>
```

Index.js:

```
let display = document.getElementById("display");
let buttons = Array.from(document.getElementsByClassName("button"));
buttons.map((button) => {
  button.addEventListener("click", (e) => {
    switch (e.target.innerText) {
      case "C":
        display.innerText = "0";
        break;
      case "=":
        try {
          display.innerText = eval(display.innerText);
        } catch {
          display.innerText = "Error";
        }
        break;
      case "←":
        if (display.innerText) {
          display.innerText = display.innerText.slice(0, -1);
        }
        break;
      default:
        console.log(e.target.innerText);
        if (display.innerText == "0") display.innerText = e.target.innerText;
        else {
          if (e.target.innerText == "×") display.innerText += "*";
          else display.innerText += e.target.innerText;
        }
    }
  });
});
```

Style.css:

```
body {
  font-size: 2rem;
  margin: 0;
  padding: 0;
  height: 100vh;
  display: flex;
  justify-content: center;
  align-items: center;
  font-family: 'consolas';
  flex-direction: column;
  background: rgb(238, 174, 202);
  background: radial-gradient(circle, rgba(238, 174, 202, 1) 0%, rgba(148, 187, 233, 1)
100%);
}

#display {
  background-color: #323232;
  width: 300px;
  color: #FFF2F9;
```

```
  margin: 10px;
  padding: 20px;
  text-align: right;
  border-radius: 10px;
  user-select: all;
}

#display::selection {
  color: white;
  background-color: blueviolet;
}

.container {
  background-color: #FE83C6;
  padding: 20px;
  border-radius: 20px;
}

.buttons {
  user-select: none;
  padding: 20px 20px 10px 20px;
  /* width: 300px; */
  display: grid;
  grid-template-columns: auto auto auto auto;
  /* background-color: pink; */
  grid-gap: 8px;
}

.button {
  /* border: 1px solid; */
  background-color: #FFF2F9;
  color: #323232;
  padding: 5px;
  text-align: center;
  padding: 18px 5px;
  border-radius: 50%;
  margin-bottom: 10px;
}

.equals {
  grid-column-start: 1;
  grid-column-end: 3;
  border-radius: 20px;
  margin-bottom: 10px;
}

.button:hover {
  background-color: #323232;
  color: #FFF2F9;
  transition: 150ms ease-out;
}
```

14. Write a script that calculates the squares and cubes of the numbers from 0 to 10 and outputs
XHTML text that displays the resulting values in an XHTML table format, as follows:
Number square cube
0 0 0
1 1 1
2 4 8
3 9 27
4 16 64
5 25 125
6 36 216
7 49 343
CODE:

```
<!DOCTYPE html>
<html>
<head>
  <title>Squares and Cubes Table</title>
</head>
<body>
  <table>
    <tr>
      <th>Number</th>
      <th>Square</th>
      <th>Cube</th>
    </tr>
    <script>
      for (var i = 0; i <= 10; i++) {
        var square = i * i;
        var cube = i * i * i;
        document.write("<tr>");
        document.write("<td>" + i + "</td>");
        document.write("<td>" + square + "</td>");
        document.write("<td>" + cube + "</td>");
        document.write("</tr>");
      }
    </script>
  </table>
</body>
</html>
```

15. Develop a JavaScript program that will determine the gross pay for each of three employees.
The company pays “straight time” for the first 40 hours worked by each employee and pays “time and a half” for all hours worked in excess of 40 hours. You are given a list of the employees of the company, the number of hours each employee worked last week and the hourly rate of each employee. Your program should input this information for each employee, determine the employee’s gross pay and output XHTML text that displays the employee's gross pay. Use prompt dialogs to input the data.
CODE:

```
<!DOCTYPE html>
```

```
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Employee Payment Calculator</title>
    <script src="index.js"></script>
    <style>
        *{
            padding: 0;
            margin: 0;
            box-sizing: border-box;
        }

        body{
            font-family: 'Courier New', Courier, monospace;
        }

        button{
            cursor: pointer;
            font-family: 'Courier New', Courier, monospace;
            background: none;
            border: 2px solid black;
            border-radius: 5px;
            font-weight: bold;
            font-size: 20px;
            padding: 10px;
            display: block;
            margin: 30px auto;
            transition: all .2s;
        }

        button:hover{
            background-color: rgb(42, 42, 42);
            color: whitesmoke
        }

        #results{
            width: 80%;
            margin: auto;
            background-color: beige;
            padding: 20px;
            font-weight: bold;
            font-size: 25px;
            border-radius: 5px;
        }

        #results p{
            margin: 10px
        }
    </style>
</head>
<body>
    <button onclick="calculate()">Enter New Employee</button>
```

```
    <div id="results"></div>
</body>
</html>
```

Index.js:

```
let employees = []

function grossPay(employee){
    if(employee.hours <= 40) return employee.hours * employee.rate

    return 40 * employee.rate + (employee.hours - 40) * employee.rate * 1.5
}

function calculate(){
    let name = prompt('Enter name of Employee')
    let hours = parseInt(prompt('Enter hours worked by employee'))
    let rate = parseFloat(prompt('Enter the hourly rate of employee'))

    employee = {
        name: name,
        hours: hours,
        rate: rate
    }

    employees.push(employee)
    display_details()
}

function display_details(){
    let newEmpIndex = employees.length - 1;
    let newEmpPaymentDetails = `<p>${employees[newEmpIndex].name} is paid
&#8377;${grossPay(employees[newEmpIndex])} for working
${employees[newEmpIndex].hours} hours</p>`
    document.querySelector('#results').innerHTML += newEmpPaymentDetails;
}
```

16. Write a script that reads several lines of text and prints a table indicating the number of Occurrences of each different word in the text. The first version of your program should include the words in the table in the same order in which they appear in the text.

CODE:

Index.html:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
  </head>
  <body>
    <div class="text"></div>
```

```
    <table>
      <thead>
        <th>Word</th>
        <th>Word length</th>
        <th>No. of occurences</th>
      </thead>
      <tbody></tbody>
    </table>
    <script src="index.js"></script>
  </body>
</html>
```

Index.js:

```
(tbody = document.getElementsByTagName("tbody")[0]),
  (dataDiv = document.getElementsByClassName("text")[0]);

var data = prompt("Enter some lines:");
dataDiv.textContent = `You entered: ${data}`;
const arr = data.split(" ");
var dict = [];
arr.forEach((element) => {
  if (element != "") {
    x = dict.find((o) => o[0] == element);
    if (x) {
      x[1] += 1;
    } else {
      var arr2 = [element, 1];
      dict.push(arr2);
    }
  }
});

dict.forEach((row) => {
  tr = document.createElement("tr");
  td1 = document.createElement("td");
  td1.textContent = row[0];
  td2 = document.createElement("td");
  td2.textContent = row[0].length;
  td3 = document.createElement("td3");
  td3.textContent = row[1];
  tr.appendChild(td1);
  tr.appendChild(td2);
  tr.appendChild(td3);
  tbody.appendChild(tr);
});
```

17. Once an HTML page completes loading it greets a user with a message ‘Welcome’. When a
user leaves this page, the ‘Good-bye’ alert box is displayed.

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

```
<!--
   PLEASE INTERACT WITH THE WEBSITE FIRST IN ORDER TO FIRE THE
BEFOREUNLOAD EVENT
 -->
<head>
   <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
   <style>
      * {
         margin: 0;
         padding: 0;
         font-family: 'Courier New', Courier, monospace;
      }

      body {
         height: 100vh;
         display: flex;
         align-items: center;
         justify-content: center;
         font-size: 30px;
         background-color: beige;
         color: brown;
      }
   </style>
</head>

<body>
   <h1>Click on me before exiting the webpage</h1>
   <script defer>
      window.onload = alert('Welcome');

      document.body.addEventListener('click', () => {
         let h1 = document.getElementsByTagName('h1')[0];
         h1.innerHTML = 'You can exit this page :)'
      })

      window.addEventListener("beforeunload", function (event) {
         event.preventDefault();
         event.returnValue = "Bye Bye"; // you cannot show personalized messages to the
user
      });

   </script>
</body>

</html>
```

18. Write a Javascript code block, which validates a username and password against hard coded values.
If either the name or password field is not entered, display an error message showing:
“You forget one of the required fields. Please try again.”
In case, the fields entered do not match the hard coded values, display an error message showing:
“Please enter a valid username or password”
If the fields entered match, display the following message:”Welcome (username)”.

CODE:
Index.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Login</title>
    <style>
        *{
            margin: 0;
            padding: 0;
            box-sizing: border-box;
            font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-serif;
        }

        body{
            height: 100vh;
            display: flex;
            justify-content: center;
            align-items: center;
        }

        .page-content{
            border-radius: 10px;
            width: 50%;
            background-color: blanchedalmond;
            margin: auto;
            height: 50vh;
            display: flex;
            justify-content: center;
            align-items: center;
            border: 1px solid ;
            box-shadow: 8px 8px 0 0 rgb(153, 153, 140)
        }

        .login{
            font-size: 30px;
            display: grid;
            /* display: none; */
            grid-template-columns: 1fr 2fr;
            grid-gap: 10px;
        }
```

```
        .result{
            display: none;
            font-size: 30px;
        }

        input[type='text'], input[type='password']{
            padding: 10px;
        }

        input[type='submit']{
            margin-top: 20px;
            padding: 10px;
            background: none;
            border: 1px solid rgb(168, 137, 137);
        }
    </style>
    <script src="index.js" defer></script>
</head>
<body>
    <div class="page-content">

            <form action="#" class="login" onsubmit="login(); return false;">
                <label for="username">Username:</label>
                <input type="text" name="username" id="username">
                <label for="password">Password:</label>
                <input type="password" name="password" id="password">
                <input type="submit" value="Login">
            </form>
        <div class="result"></div>
    </div>
    <div class="result"></div>
</body>
</html>

Index.js:
const uname = 'xarcode'
const pass = '12345'

let login = () => {
    let username = document.querySelector('#username').value;
    let password = document.querySelector('#password').value;

    if(username.length == 0) alert('Please input username')
    if(password.length == 0) alert('Please input password')

    if(username != uname || password != pass)
        alert('Username or password does not match')
    else{
        let loginForm = document.querySelector('.login');
        loginForm.style.display = 'none';

        let result = document.querySelector('.result');
        result.style.display = 'block'
        result.innerHTML = `WELCOME ${username}`;
```

```
    }
    }


END
```