Experiment No: 1 Date: 03/10/24

### **BASIC HTML TAGS**

# **AIM**

To create a simple html file to demonstrate the use of different tags such as heading tags <h1>...<h6>, , <br/>
<math>, <br/>
<math>, <br/>
<math>, <align> tag with tag/ heading tags, <bgcolor> with <br/>
<math><bdots tag, <marquee> tag, <a> tag and <img> tag.

```
<html>
      <head>
             <title>HTML Tag Demonstration</title>
      </head>
      <br/>
<br/>
body bgcolor="Pink">
             <!--Heading Tags-->
             <h1> Heading 1 </h1>
             <h2> Heading 2 </h2>
             <h3> Heading 3 </h3>
             <h4> Heading 4 </h4>
             <h5> Heading 5 </h5>
             <h6> Heading 6 </h6>
             <!--Paragraph and formatting tags-->
             This is a <b>bold</b>, <u>underlined</u>, and
             <i>i>italicized</i> paragraph with some <br/>br>line breaks.
             <!--Marquee Tag-->
             <marquee>Welcome to the HTML Page!</marquee>
             <!--Anchor Tag-->
             Visit<a href="https://www.geeksforgeeks.org/">More about
             HTML</a>
             <!--Image Tag-->
             <img src="html.jpeg" alt="HTML" width="500" height="300">
      </body>
</html>
```

RESULT		
The HTML page to demonstrate basic HTML tags has been designed.		
	2	

Experiment No: 2 Date: 03/10/24

# **HTML LISTS**

### **AIM**

Create a web page which contains notes on lists in HTML (ordered and unordered).

```
<html>
   <head>
       <title>HTML Lists</title>
   </head>
   <body>
       <h1>HTML Lists</h1>
       <h2>Unordered List</h2>
       <ul>
           BCA
           MCA
           MBA
       ul type="circle">
           BCA
           MCA
           MBA
       <h2>Ordered List</h2>
       <ol>
           BCA
           <1i>MCA</1i>
           MBA

 type="A">

           BCA
           MCA
           MBA
       type="a">
           BCA
           MCA
           MBA

    type="I">

           BCA
           MCA
           MBA

  type="i">

           BCA
           MCA
           MBA
       </body>
```

RESULT		
The HTML page to demonstrate HTML lists has been designed.		
4		

Experiment No: 3 Date: 03/10/24

### HTML PAGE WITH IMAGES AND TABLES

#### **AIM**

Create a static webpage for your college with the following information:

- a) Name of college (First level heading, text align = center, color = blue, use style attribute)
- b) Add vision and mission of the college as scrolling text (color = green)
- c) About us (Second level heading, background-color = red, color = white, use style attribute)
  - i. Insert an image of your college.

(Align image in center, width = 1000px, height = 300px)

- ii. Add a brief description about your college. (justified paragraph)
- d) Courses Offered (Second level heading, background-color = red, color = white, use style attribute)
  - i. Add a brief description about courses offered. (justified paragraph)

Add course details (Use HTML table)

ii. Contact us. (Second level heading, background-color = red, color = white)

Address for Communication (Third level heading, color = blue)

Address of the college

Add Link to the official website of the college.

### **SOURCE CODE**

```
<html>
<head>
<title>RIT</title>
</head>
<body>
<h1 style="text-align Technology</h1>
```

<h1 style="text-align:center;color:blue;">Rajiv Gandhi Institute Of Technology</h1>

<h2 style="color:green;"><marquee>Our vision is to be a global leader in technological education and research</marquee></h2>

<h3 style="background-color:red;color:white;">About us..</h3>

<img src="rit.jpeg" alt="RIT" style="width:1000px ;height:500px;">

Rajiv Gandhi Institute of Technology, named after the late Prime Minister Sri Rajiv Gandhi, run by the Government of Kerala, started functioning in 1991. It has established a vast infrastructure and put together a team of dedicated teachers. The institution has become one of the leading technical Institutes in Kerala. The government has started this institution in the view of making it a center for post-graduation and research studies. The college is affiliated to the APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY. RIT, the sanctum of technology aims at providing high quality education for talented students from all sections of the society. Owned and managed by the Government of Kerala, it has a highly qualified and dedicated faculty. More than providing technical education RIT aims at the overall development of each and every RITian. The college provides a positive environment for the students to develop their potentials and to excel in all walks of life.

<h2 style="background-color:red;color:white;">Courses offered..</h2>

All courses offered by RIT are affiliated to KERALA TECHNICAL UNIVERSITY and approved by the All-India Council for Technical Education (AICTE). The B. Tech programs are of 8 semester (4 year) duration. The combined first and second semester courses are common for all branches. The B.

```
Arch program is of 10 semester (5 year) duration. The M. Tech programs are of 4
semester (2 year) duration, and the MCA program is of 6 semester (3 year)
duration.
UG
 >
   COURSE
   DEPARTMENT
   INTAKE
 B.Tech
   Civil
   Engineering 
   66
 Mechanical
   Engineering
   66
 Electrical $
   Electronics Engineering
   66
 Electronics $
   Communication Engineering
   66
 Computer
   Science $ Engineering
   66
 B.Arch
    Architecture
   40
 PG
```

>	
	<pre>COURSE</pre>
	DEPARTMENT
	SPECIALIZATION
	<pre>INTAKE</pre>
	th style. bolder. The solid black, padding, ope > 11 (TAKE > til)
>	
	M.Tech
	Civil
	Engineering
	Transportation
	Engineering
	18
	ta style. Voladi. Iph solid vlack, padding, oph v 10 4 ta
>	41 4 1 H1 1 1 1 111 1 111 0 HS M 1 1 1
	Mechanical
	Engineering
	Industrial
	Engg. \$ Management
	18
>	
	Electrical \$
	Electronics Engineering
	Industrial
	Drives \$ Control
	·
-/-	18
>	
	Electronics \$
	Communication Engineering
	Advanced
	Communication and Information System
	18
	J 1 71 8/-1
\t1>	Electronics \$
	Communication Engineering
	Advanced
	Electronics and Communication
	18
>	
	Computer
	Science \$ Engineering
	Computer
	Science \$ Engineering
	belefice & Flighteeting Atta

```
18
          MCA
              MCA
              Computer
              Applications
              60
          <h2 style="background-color:red;color:white;">Contact Us..</h2>
       <h3 style="color:blue;">Address for Communication</h3>
       Velloor P O<br/>br>Pampady<br/>Vottayam-686501 , Kerala State.<br/>br>
       <a href="https://www.rit.ac.in/">Official Website</a>
   </body>
</html>
```

The HTML page to demonstrate images and tables has been designed.

Experiment No : 04 Date : 03/10/24

### HTML PAGE WITH HYPERLINKS

### **AIM**

Create an attractive webpage showing the images and description of at least three festivals in India. Set width and height of the images as 500px and 700px respectively. When an image of a festival is clicked, user must redirect to another webpage showing details of that festival. The new webpage should be opened in another tab.

### **SOURCE CODE**

```
Main.html
<html>
       <head>
             <title>Indian Festivals</title>
      </head>
      <body>
              <center>
             <h1 style="text-align:center;color:red;">Indian Festivals</h1>
             <h2 style="color:blue">Diwali</h2>
             <a href="diwali.html" target=" blank"><img src="diwali.jpeg" width=500px
             height=700px > </a>
             <h2 style="color:blue">Holy</h2>
             <a href="holy.html" target=" blank"><img src="holy.jpeg" width=500px"
             height=700px > </a>
             <h2 style="color:blue">Onam</h2>
             <a href="onam.html" target=" blank"><img src="onam.jpeg" width=500px
              height=700px > </a>
             </center>
       </body>
</html>
```

<h3 align=center>Diwali, also known as Deepavali, is a major Hindu festival celebrated with grandeur and enthusiasm across India and many parts of the world. The word "Deepavali" translates to "a row of lamps," signifying the victory of light over darkness, knowledge over ignorance, and good over evil.

# holy.html

diwali.html

<h3 align=center>Holi is a vibrant and joyful festival celebrated predominantly in India and Nepal, marking the arrival of spring and the triumph of good over evil. Known as the Festival of Colors, it brings people together to play with colors, sing, dance, and enjoy festive delicacies.</h3> onam.html

<a href="<"><h3 align=center</a>>Onam is a grand harvest festival celebrated in the southern Indian state of Kerala. It marks the homecoming of the mythical King Mahabali, whose reign is believed to have brought peace, prosperity, and equality. This 10-day festival showcases Kerala's rich culture and traditions, with vibrant rituals, feasts, dances, and games.</h>

### RESULT

The HTML page to demonstrate hyperlinks has been designed.

Experiment No: 5 Date: 17/10/24

### **HTML PAGE WITH FRAMES**

# **AIM**

Using HTML Iframes create a webpage with two frames. One frame contains list of items as hyperlinks - Fruits, Vegetables, Flowers and Trees. When an item is selected, details and images of the selected item should be displayed on right frame.

Fruits Vegetables Flowers	Select any of the items shown on the left
Trees	

Left Frame Right Frame

```
frame.html
<html>
      <head>
             <title>HTML iframes</title>
      </head>
      <body>
             <iframe src="menu.html" width="50%" height="100%" style="border:none;"</pre>
             align="left">
             </iframe>
             <iframe src="display.html" name="contents" width="50%" height="100%"
             style="border:none;" align="right">
             </iframe>
      </body>
</html>
menu.html
<html>
      <head>
             <title>Menu</title>
      </head>
      <body>
             <u1>
                   <a href="fruit.html" target="contents">Fruits</a>
                   <a href="vegetables.html" target="contents">Vegetables</a>
                   <a href="flowers.html" target="contents">Flowers</a>
                   <a href="trees.html" target="contents">Trees</a>
             </body>
</html>
display.html
<html>
      <head>
             <title>Display</title>
      </head>
```

```
<body>
             <h3>Select any items to show on screen</h3>
      </body>
</html>
fruit.html
<html>
      <head>
             <title>Fruits</title>
      </head>
      <body>
             <h2 align="center">Fruits</h2>
             <div align="center">
             <img src="fruits.jpeg" height=500px width=500px></div>
             Fruits are the sweet, Fleshy, edible part of plant. It generally
             contains seeds. Fruits are vital part of a healthy diet. They come in wide variety of
             colours, shapes and flavours.
             </body>
</html>
vegetables.html
<html>
      <head>
             <title>Vegetables</title>
      </head>
      <body>
             <h2 align="center">Vegetables</h2>
             <div align="center">
             <img src="vegetables.jpeg" height=500px width=500px></div>
             Vegetables are good source of vitamins A, C and E as well as
             minerals like calcium and iron. Eating vegetables can help you maintain a healthy
             weight, lower your cholesterol and blood pressure.
             </body>
</html>
flowers.html
<html>
      <head>
             <title>Flower</title>
      </head>
      <body>
             <h2 align="center">Flowers</h2>
             <div align="center">
             <img src="flowers.jpeg" height=500px width=500px></div>
             Flowers are an essential part of our lives. They are responsible
             for bringing happiness in our lives and making our surrounding environment a
             prettier place to live in.
             </body>
</html>
                                           11
```

The HTML page to demonstrate frames has been designed.

Experiment No: 6 Date: 17/10/24

### **HTML FORM**

#### **AIM**

Create a Student Registration Form.

```
SOURCE CODE
```

```
<html>
    <head>
         <title>HTML Forms</title>
    </head>
    <body>
         <center><h3>STUDENT REGISTRATION FORM</h3>
         FIRST NAME
             <input type="text"> (max 30 characters)
         >
             LAST NAME
             <input type="text"> (max 30 characters)
         DATE OF BIRTH
             <select>
             <option>Day:</option>
             <option>1</option>
             <option>2</option></select>
             <select>
             <option>Month:
             <option>January
             <option>February/select>
             <select>
             <option>Year:</option>
             <option>1998</option>
             <option>1999</select>
         EMAIL ID
             >
             MOBILE NUMBER
             <input type="text"> (10 digit number)
         GENDER
             Male <input type=radio name="a"> Female <input type=radio
             name="a">
```

```
>
   ADDRESS
   <textarea rows=4 cols=27></textarea>
>
   CITY
   <input type="text"> (max 30 characters)
>
   PIN CODE
   <input type="text"> (6 digit number)
>
   STATE
   <input type="text"> (max 30 characters)
COUNTRY
   <input type="text" value="India">
>
   HOBBIES
   Drawing <input type=checkbox> Singing <input type=checkbox>
   Dancing <input type=checkbox> Sketching <br/> Others
   <input type=checkbox> <input type =text>
QUALIFICATION
   <tr>
          SL.No
          Examination
          Board
          Percentage
          Year of Passing
        1 
          Class X
          2
          Class XII
```

```
 3 
                Graduation
                <input type="text">
             4
                Masters
                <input type="text">
             (10 char max)
                (upto 2 decimal)
                COURSES<br/>br>APPLIED FOR
          MCA <input type=radio name="a"> MTech <input type=radio
          name="a"> M.Sc <input type=radio name="a"> Ph.D. <input type=radio
          name="a">
      TYPE YOUR PASSWORD
         <input type="password"> (max 30 characters)
      >
         UPLOAD YOUR PHOTO
         <input type=file>
      DATE OF TC
         <input type=submit> <input type =reset> 
      </form>
      </center>
   </body>
</html>
```

The HTML page to design a student registration form has been designed.

Experiment No: 7 Date: 17/10/24

### HTML PAGE WITH INTERNAL STYLESHEET

### **AIM**

Using Internal style sheets, create a web page showing your biodata, with the following styles:

- a. Put your Name in <h1> tag, center aligned.
- b. Add following via <h2> tags, Personal Details, Educational Details, Hobbies. Put the respective contents below, in list format.
- c. Add contact details at the bottom including mail id and mobile number.
- d. Style all <h1> tags as red coloured and center aligned and all <h2> tags as white coloured with background color blue.
- e. Display elements with a border.
- f. Change the background color of the page to yellow.

```
<html>
<head>
      <title>My Biodata</title>
      <style>
      body{
            background-color:yellow;
            padding:10px;
            padding-left:200px;
            padding-right:200px;}
      h1{
            color:red;
            text-align:center;}
      h2{
            color:white;
            background-color:blue;
            padding:5px;}
      p{
            border:1px solid black;
            padding:10px;}
      </style>
</head>
<body>
      <h1>SHIFANA SHIRIN R S</h1>
      <h2>Personal Details</h2>
      <u1>
            Age : 21
            Gender : Female
            Address : Shirins Manzil, Attukal , Nedumangadu
      </u1>
      <h2>Educational Details</h2>
      <u1>
            Bachelor's Degree in Computer Science
            High School : JNV Trivandrum
      <h2>Hobbies</h2>
      <ul>
```

```
Singing
           Dancing
     Contact Details :
     \bar{\langle ul \rangle}
           Email ID : abc123@gmail.com
           Phone Number : 1234567890
     </body>
</html>
RESULT
The HTML page to demonstrate internal stylesheets has been designed.
```

### HTML PAGE WITH EXTERNAL STYLESHEET

### **AIM**

Using External Style Sheets, create a web page with following styles:

- a. Create different paragraphs defining different selectors in CSS. Each paragraph should be defined with appropriate labels for making styles of each selector.
- b. Style each selector with unique font color, and background color.

```
main.html
<html>
<head>
       <title>CSS Selectors</title>
       <link rel="stylesheet" href="styles.css">
</head>
<body>
       <h1>CSS Selectors</h1>
       An Element Selector is used to apply styles to all instances of a specific HTML
       tag.
       An ID Selector targets a single, unique element on webpage, identified
       by a specific id attribute.
       A Class Selector is used to apply styles to multiple elements
       that share same class attribute.
       <h2>This heading and the heading below are styled using grouping selector.</h2>
       <h3>The Grouping Selector allows to apply the same styles to multiple elements.</h3>
       <h4>The Universal Selector is used to select and apply styles to all elements on a
       webpage.</h4>
</body>
</html>
styles.css
* {
       font-family: Arial, Sans-serif;
       color:darkgray;
       padding-left:150px;
       padding-right:150px;
       text-align:center;
p{
       font-size:16px;
       background-color:lightgray;
       padding:10px;
       border:1px solid black;
#paragraph {
       background-color:lightgreen;
       color:green;
       border:1px solid green;
.styled-paragraph{
```

```
background-color:lightblue;
       color:blue;
       border:1px solid blue;
}
h2,h3{
       background-color:lightyellow;
       color:goldernrod;
       padding:10px;
       border:1px solid goldenrod;
RESULT
The HTML page to demonstrate external stylesheets has been designed.
                                              19
```

Experiment No: 9 Date: 17/10/24

### HTML PAGE WITH STRIPPED TABLE USING CSS

### **AIM**

Create a stripped table using CSS.

- a) Use Id attribute of the table as CSS Selector.
- b) Table header must have 20px top and bottom padding, left text align, white text color, background color as #b22222, 1px solid grey color top, bottom, left and right borders.
- c) Each table data/cell must have 8px padding on four sides.
- d) Each table data/cell must have 1px solid grey color top, bottom, left and right borders.
- e) Table borders should be collapsed into a single border.
- f) Table width should be 100% of the document body and use sans-serif font family.
- g) Highlight table rows on mouse over by setting 'burlywood' background color.
- h) Add background-color #f2f2f2 to all even table rows.

```
main.html
<html>
<head>
   <title>Striped Table</title>
   <link rel="stylesheet" href="styles.css">
</head>
<body>
   <thead>
          Employee Code
             Employee Name
             Salary
          </thead>
      1
             Anu
             10,000
         2
             Minnu
             20,000
          3
             Malu
             15,000
           4 
             Ponnu
             19.000
```

```
5
                        Kallu
                        25,000
                  </body>
</html>
styles.css
body{
      font-family:sans-serif;
#mytable {
      width:100%;
      border-collapse:collapse;
#mytable th{
      padding-top:20px;
      padding-bottom:20px;
      text-align:left;
      color:white;
      background-color:#b22222;
      border:1px solid grey;
#mytable td{
      padding:8px;
      border:1px solid grey;
.even-row{
      background-color:#f2f2f2;
#mytable tr:hover{
      background-color:burlywood;
RESULT
```

The HTML page to display a striped table using CSS has been designed.

Experiment No : 10 Date : 17/10/24

# HTML PAGE WITH IMAGE ALIGNED USING CSS

### **AIM**

Create a webpage with a center aligned Image using CSS. [Hint] To center the image in the document body, use display and margin CSS properties.

# **SOURCE CODE**

```
<html>
<head>
      <title>Center Aligned Image</title>
      <style>
      img{
             margin: 175px 380px;
             display:block;
             width:30%;
             height:40%;
             border:2px solid black;}
      h3 {
             background-color:red;
             color:white;
             padding:10px;
             align:center;
             width:100%;}
      </style>
</head>
<body>
      <h3>Center an Image</h3>
      <img src="city.jpeg">
      <h3>Town Paris</h3>
</body>
</html>
```

### RESULT

The HTML page to display an image aligned using CSS has been designed.

### HTML PAGE WITH NAVIGATION BAR USING CSS

### **AIM**

Create a fixed full size side navigation bar using CSS.

- a) Create a div tag with class name 'sidenav' and hyperlinks About us, Departments, Vision and Mission and Contact us.
- b) Create a div with class name 'main' and h1 tag for heading 'side bar example'.
- c) CSS for anchor tag
  - Set as Block element.
  - Text decoration none
  - Top, right, bottom, left padding 6px, 8px, 6px and 16px respectively.
  - Text color white.
- d) CSS for side nav div tag
  - -Height stretches full document height.
  - Width 160px, Padding top 20px.
  - Background color green.
  - Use position, top, left properties to create a fixed full size side navigation bar on top left corner.
  - Highlight menus on mouse over by setting 'red' Text color.
- e) CSS for main div tag
  - Left margin should be same as the width of the sidenav div.
  - Top and bottom paddings are 0px
  - Right and left paddings are 10px
  - Set 2000px as height.

```
<html>
<head>
       <title>Side Navigation Bar</title>
       <style>
              a{
                     display:block;
                     text-decoration:none;
                     padding:6px 8px 6px 16px;
                     color:white;}
              .sidenav{
                     height:100%;
                     width:160px;
                     padding-top:20px;
                     background-color:green;
                     float:left;}
              a:hover{
                     color:red;}
              .main{
                     margin-left:160px;
                     padding:0px 10px 0px 10px;
                     /*height:2000px;*/
                     float:center;}
       </style>
</head>
```

```
<body>
       <div class="sidenav">
             <a href="">About Us</a>
             <br/>br><a href="">Departments</a>
             <br/><a href="">Vision and Mission</a>
             <br/>
<a href="">Contact Us</a>
       </div>
      <div class="main"><h1>Side Bar Example</h1></div>
</body>
</html>
RESULT
The HTML page to display a navigation bar using CSS has been designed.
                                            24
```

### CHANGE BACKGROUND COLOUR OF WEBPAGE USING JAVASCRIPT

### **AIM**

Develop a web application using JavaScript to change the background color of the webpage when the following events of the button "change background color" occur. [Hint: use addEventListener Method]

- a. Double click background color changed to green.
- b. Single click background color changed to red.

### **SOURCE CODE**

```
<html>
<head>
       <title>Background Color Changer</title>
       <style>
              body{
                     font-family:sans-serif;
                     display:flex;
                     justify-content:center;
                     align-items:center;
              button
                     padding:10px 20px;
                     font-size:16px;
       </style>
</head>
<body>
       <button id="changecolor">Change Background Color/button>
       <script>
              function changetored()
                     document.body.style.backgroundColor="red";
              function changetogreen()
                     document.body.style.backgroundColor="green";
              const button=document.getElementById('changecolor');
              button.addEventListener('click',changetored);
              button.addEventListener('dblclick',changetogreen);
       </script>
</body>
</html>
```

### RESULT

The HTML page to change background colour of webpage using JavaScript has been designed.

### CHANGE IMAGES IN WEBPAGE USING JAVASCRIPT

### **AIM**

Create a web application using JavaScript to turn on / off the given light bulb. Hints: change the 'src' attribute of the image tag when clicking buttons.

# **SOURCE CODE**

```
<html>
<head>
       <title>Light Bulb Switch</title>
       <style>
              body{
                      font-family:sans-serif;
                     display:flex;
                     flex-direction:column;
                     justify-content:center;
                     align-items:center;
              button{
                     padding:10px 20px;
                     font-size:16px;
              img{
                     width:200px;
                     margin-bottom:20px;
       </style>
</head>
<body>
       <img id="lightbulb" src="off.jpeg" alt="Light Bulb">
       < div>
              <button id="turnon">Turn On</button>
              <button id="turnoff">Turn Off</button>
       </div>
       <script>
              const lightbulb=document.getElementById('lightbulb');
              function turnbulbon(){
                     lightbulb.src="on.jpeg";
              function turnbulboff(){
                     lightbulb.src="off.jpeg";
              document.getElementById('turnon').addEventListener('click',turnbulbon);
              document.getElementById('turnoff').addEventListener('click',turnbulboff);
       </script>
</body>
</html>
```

# **RESULT**

The HTML page to change images in webpage using JavaScript has been designed.

**Experiment No : 14 Date : 14/11/24** 

### VALIDATE INPUT FIELDS IN A FORM USING JAVASCRIPT

### **AIM**

Develop a web application using JavaScript to validate the Name, Email and Mobile number fields of the form created in Experiment No. 5.

```
<html>
     <head>
          <title>Form Validation</title>
     </head>
    <body>
          <center>
          <h3>STUDENT REGISTRATION FORM</h3>
          Using asterisks(<font color='red'>*</font>) for required fields.
          <form id="myForm">
               FIRST NAME<font color='red'>*</font>
                    <input type="text" id="name">&nbsp;(max 30
                    characters)
               LAST NAME<font color='red'>*</font>
                    <input type="text" id="name2">&nbsp;(max 30
                    characters)
               >
                    DATE OF BIRTH
                    <select><option>Day:</option></select>&nbsp;
                    <select><option>Month:</option></select>&nbsp;
                    <select><option>Year:</option></select>
               EMAIL ID<font color='red'>*</font>
                    <input type="email" id="email">
               MOBILE NUMBER<font color='red'>*</font>
                    <input type="text" id="phone">&nbsp;(10-digit number ) 
               GENDER
                    <input type="radio">Male<input type="radio">
                    Female
               ADDRESS
```

```
CITY
   <input type="text">&nbsp;(max 30 characters)
>
   PINCODE
   <input type="text">&nbsp;(max 6 characters)
STATE
   <input type="text">&nbsp;(max 30 characters)
COUNTRY
   <input type="text">&nbsp;(max 30 characters)
HOBBIES
   Drawing<input type="checkbox"> Singng
   <input type="checkbox"> Dancing<input type="checkbox">
   Sketching<input type="checkbox"><br>Others
   <input type="checkbox"><input type="text">
>
   QUALIFICATION
   SL.NO.
       Examination
       Board
       Percentage
       Year of Passing
    1 
       Class X
       >
       2
       Class XII
       <input type="text">
        3 
       Graduation
```

```
<input type="text">
                  >
                   4 
                  Masters
                  <input type="text">
                  <input type="text">
                  <center>(10 char max)</center</td>
                  <center>(upto 2 decimal)</center>
                  COURSES<br/>br>APPLIED FOR
              MCA<input type="radio">M.TECH<input type="radio">
              M.Sc<input type="radio">Ph.D.<input type="radio">
         TYPE YOUR PASSWORD
              input type="password"> (max 30 characters)
         UPLOAD YOUR PHOTO
              <input type="file">
         DATE OF TC
              <input type="date">
         <center><input type="submit" onclick=
              "validateForm()"> <input type="submit" value=
              "Reset"></center>
         </form>
</center>
<script>
    function checkEmptyFields() {
         const name = document.getElementById('name').value.trim();
         const name2 = document.getElementById('name2').value.trim();
         const email = document.getElementById('email').value.trim();
         const phone = document.getElementById('phone').value.trim();
```

```
return name === " || email === " || phone === " || name2 === ";
function verifyEmail(email) {
       const atPosition = email.indexOf("@");
       const dotPosition = email.lastIndexOf(".");
       if (atPosition < 1 \parallel dotPosition < atPosition + 2 \parallel dotPosition + 2 >=
       email.length) {
               return false;
       return true;
function verifyName(name) {
       if (name.length < 1)
               return false;
       for (let i=0;i<name.length;i++){
               if(!isNaN(name[i]) && name[i]!=="){
                      return false:
       return true;
function verifylastName(name2) {
       if (name.length < 1)
               return false;
       for (let i=0;i<name2.length;i++){
               if(!isNaN(name2[i]) && name2[i]!=="){
                      return false;
       return true;
function verifyPhone(phone) {
       if (phone.length !== 10 || isNaN(phone)) {
               return false;
       return true;
function validateForm(){
       const email = document.getElementById('email').value.trim();
       const name = document.getElementById('name').value.trim();
       const name2 = document.getElementById('name2').value.trim();
       const phone = document.getElementById('phone').value.trim();
       if (checkEmptyFields()) {
               alert('Please fill in all required fields.');
       else if (!verifyEmail(email)) {
               alert("Please enter a valid email address. ");
       else if (!verifyName(name)) {
```

The HTML page to validate input fields in a form using JavaScript has been designed.