

## **BASIC HTML TAGS**

### **AIM**

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

### **SOURCE CODE**

```
<html>
<head>
<title>sample html</title>
</head>
<body bgcolor="#0088cc">
<h1>Heading One</h1>
<h2>Heading Two</h2>
<h3>Heading Three</h3>
<h4>Heading Four</h4>
<h5>Heading Five</h5>
<h6>Heading Six</h6>
<p>This is a html page.Which contain some tags</p>
<b>This tag is used for bold letters</b>
<u>This tag is used for underline</u>
<i>This tag is used for italic</i>
<p>This is a paragraph.<br>It has a line break in between</p>
<p align="center"> This paragraph is at the the center of webpage</p>
<marquee behavior="scroll" direction="left">This messege is scrolling to left</marquee>
<a href="https://www.google.com/">Google</a>

</body>
</html>
```

### **RESULT**

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

## **HTML LISTS**

### **AIM**

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

### **SOURCE CODE**

```
<html>
<head><title>HTML List</title>
</head>
<body>
<h1>Ordered list</h1>
<ol><li>Apple</li>
<li>Orange</li>
<li>banana</li>
</ol>
<h1>Unordered list</h1>
<ul>
<li>Cat</li>
<li>Dog</li>
<li>Cow</li>
</ul>
<ul type="circle">
<li>car</li>
<li>Bus</li>
<li>Boat</li>
</ul>
</body>
</html>
```

### **RESULT**

The HTML page to demonstrate HTML list tags has been designed.

## 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 tag).
  - 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 Website</title>
</head>
<body>
<h1 style="text-align:center;color:blue;">Rajiv Gandhi Institute Of Technology</h1>
<marquee> <h2 style="color:green;">Be a centre of technological excellence for the betterment of
society.</h2></marquee>
<div style="background-color:red"><h2>About Us</h2></div>
<div width=100%><center></center></div>
<p align="justify">
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.
</p>
<div style="background-color:red"><h2>Courses offered</h2></div>
<p>All courses offered by RIT are affiliated to Dr. APJ ABDUL KALAM TECHNOLOGICAL BTech
programmes are of 8 semester (4 year) duration. .The B.Arch programme is of 10 semester (5 year)
duration.The M. Tech programmes are of 4 semester (2 year) duration, and the MCA programme is of 4
semester (2 year) duration.</p>
```

```

<table border="1">
<tr>
<th colspan="3">UG</th></tr>
<tr>
<th>COURSE</th>
<th>DEPARTMENT</th>
<th>INTAKE</th>
</tr>
<tr>
<td rowspan="5">B.Tech</td>
<td>Civil Engineering</td>
<td>66</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>66</td>
</tr>
<tr>
<td>Electrical & Electronics Engineering</td>
<td>66</td>
</tr>
<tr>
<td>Electronics & Communication Engineering</td>
<td>66</td>
</tr>
<tr>
<td>Computer Science Engineering</td>
<td>66</td>
</tr>
<tr>
<td>B. Arch</td>
<td>Architrecture</td>
<td>40</td>
</tr>
</table>
<br><br>
<table border="1">
<tr><th>COURSE</th>
<th>DEPARTMENT</th>
<th>SPECIALIZATION</th>
<th>INTAKE</th>
</tr>
<tr><td rowspan="6">M.Tech</td>
<td>civil engireeing</td>
<td>Transport engireeing</td>
<td>18</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>Industrial Engineering</td>
<td>18</td>
</tr>

```

```

<tr>
<td>Electrical & Electronics Engineering</td>
<td>Advanced Electronics</td>
<td>18</td>
</tr>
<tr>
<td>Computer Science Engineering</td>
<td>Computer Science</td>
<td>18</td>
</tr>
<tr>
<td>MCA</td>
<td>MCA</td>
<td>60</td>
</table>
<div style="background-color:red"><h2>Contact Us</h2></div>
<div><h3 style="color:blue;">Address for communication</h3></div>
<p>Vellor P.O<br>pampady<br>Kottayam-681650<p>
<a href="http://www.rit.ac.in/index.php">offical Website</a>
</body>
</html>

```

## RESULT

The HTML page of college ha been designed.

## **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**

#### **INDEX.html**

```
<html>
<head>
<title>Indian festivals</title>
</head>
<body>
<h1>INDIAN FESTIVALS</h1>
<h2>HOLI</h2>
<a href="holi.html" target="blank"></a>
<p>Holi is a popular and significant Hindu festival celebrated as the Festival of Colours, Love, and Spring. It celebrates the eternal and divine love of the deities Radha and Krishna. Additionally, the day signifies the triumph of good over evil, as it commemorates the victory of Vishnu as Narasimha over Hiranyakashipu</p>
<a href="diwali.html" target="blank"></a>
<p>Diwali is the Hindu festival of lights with its variations also celebrated in other Indian religions. It symbolises the spiritual "victory of light over darkness, good over evil, and knowledge over ignorance".</p>
<a href="dussehra.html" target="blank"></a>
<p>Vijayadashami, also known as Dussehra, Dasara or Dashain, is a major Hindu festival celebrated every year at the end of Navaratri. It is observed on the tenth day of the month of Ashvin, the seventh in</p>
</body>
</html>
```

#### **DIWALI.html**

```
<html>
<head>
<title>Diwali</title>
</head>
<body>
<h1>DIWALI</h1>

<h2>Description</h2>
```

```
<p>Diwali (also: Deepawali) is one of India's biggest festivals. The word 'Deepawali' means rows of
lighted lamps. It is a Festival of Lights and Hindus celebrate it with joy. During this festival, people
light up their houses and shops with Diyas (small cup-shaped oil lamp made of baked clay). They
worship the Lord Ganesha for welfare and prosperity and Goddess Lakshmi for wealth and wisdom.
his festival is celebrated in the Hindu month of Kartikamasam which falls sometime during October
or November. It is celebrated to mark the return of Lord Rama after 14 years of exile and his victory
over the Demon Ravana. In many parts of India, Deepawali is celebrated for five consecutive days.
Hindus regard it as a celebration of life and use the occasion to strengthen relationships. In some
parts of India, it marks the beginning of a new year. People clean and decorate their house before the
festival. They do colorful rangoli art works on floors.<br>Hindus light up their homes and shops to
welcome the Goddess Lakshmi and to give them good luck for the year ahead. A few days before
Ravtegh, which is the day before Deepavali, houses, buildings, shops and temples are thoroughly
cleaned, whitewashed and decorated with pictures, toys and flowers. On the day of Deepawali,
people put on their best clothes and exchange greetings, gifts and sweets with their friends and
family.At night, buildings are illuminated with earthen lamps, candle-sticks and electric bulbs.</p>
</body>
</html>
```

## DUSSEHRA.html

```
<html>
<head><title>Dussehra</title></head>
<body>
<h1>DUSSEHRA</h1>

<h2>Description</h2>
<p>Vijayadashami also known as Dussehra,[a] Dasara or Dashain, is a major Hindu festival
celebrated every year at the end of Navaratri. It is observed on the tenth day of the month of
Ashvin, the seventh in the Hindu Luni-Solar Calendar. The festival which typically falls in the
Gregorian calendar months of September and October.<br>Vijayadashami is observed for
different reasons and celebrated differently in various parts of the Indian subcontinent.In the
southern,eastern, northeastern, and some northern states of India, Vijayadashami marks the end of Durga
Puja, remembering goddess Durga's victory against the buffalo demon Mahishasura to restore and protect
dharma. In the northern, central and western states, it marks the end of Ramlila and commemorates god
Rama's victory over the demon king Ravana. Alternatively, it marks a reverence for one of the aspects
of goddess Devi, such as Durga or Saraswati.<br> </p>
</body>
</html>
```

## HOLI.html

```
<html>
<head>
<title>Holt</title></head>
<body>
<h1>HOLI</h1>

<h2>Description</h2>
<p>Holt is a sacred ancient tradition of Hindus, a holiday in many states of India and Nepal with
regional holidays in other countries. It is a cultural celebration that gives Hindus and non-Hindus
alike an opportunity to have fun banter with other people by throwing coloured water at each other.
It is also observed broadly in the Indian subcontinent. Holt is celebrated at the end of winter, on the
last full moon day of the Hindu luni-solar calendar month marking the spring, making the date vary
```

with the lunar cycle. The date falls typically in March, but sometimes late February of the Gregorian calendar. The festival has many purposes; most prominently, it celebrates the beginning of Spring. In 17th century literature, it was identified as a festival that celebrated agriculture, commemorated good spring harvests and the fertile land. Hindus believe it is a time of enjoying spring's abundant colours and saying farewell to winter. To many Hindus, Hindu festivities mark an occasion to reset and renew ruptured relationships, end conflicts and rid themselves of accumulated emotional impurities from the past

## RESULT

The HTML pages of Indian festivals has been designed.



## **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.

### **SOURCE CODE**

#### **INDEX.html**

```
<html>
<head>
<title>Main Page</title>
</head>
<body>
<table>
<tr>
<th>
<h1>ITEMS</h1>
</th>
<th><h1>DETAILS</h1></th>
</tr>
<tr><td>
<iframe src="menu.html" name="menu" width="300px" height="800px"
frameborder="1"></iframe>
</td>
<td>
<iframe name="details" src="" width="900px" height="800px" frameborder="1"></iframe>
</td>
</body>
</html>
```

#### **MENU.html**

```
<html>
<head>
<title>Fruits</title>
</head>
<body>
<ul>
<li><a href="fruits.html" target="details">FRUITS</a></li>
<li><a href="vegetables.html" target="details">VEGETABLES</a></li>
<li><a href="flowers.html" target="details">FLOWERS</a></li>
<li><a href="trees.html" target="details">TREES</a></li>
</ul>
</body></html>
```

## FRUITS.html

```
<html>
<head>
<title>Fruits</title>
</head>
<body>
<h2>FRUITS Details</h2>

<p>Fruits are the means by which flowering plants (also known as angiosperms) disseminate their seeds. Edible fruits in particular have long propagated using the movements of humans and other animals in a symbiotic relationship that is the means for seed dispersal for the one group and nutrition for the other; in fact, humans and many other animals have become dependent on fruits as a source of food. Consequently, fruits account for a substantial fraction of the world's agricultural output, and some (such as the apple and the pomegranate) have acquired extensive cultural and symbolic meanings. </p>
</body>
</html>
```

## VEGETABLES.html

```
<html>
<head>
<title>Vegetables</title>
</head>
<body>
<h2>VEGETABLES Details</h2>

<p>Vegetables are parts of plants that are consumed by humans or other animals as food. The original meaning is still commonly used and is applied to plants collectively to refer to all edible plant matter, including the flowers, fruits, stems, leaves, roots, and seeds. An alternative definition of the term is applied somewhat arbitrarily, often by culinary and cultural tradition. It may exclude foods derived from some plants that are fruits, flowers, nuts, and cereal grains, but include savoury fruits such as tomatoes and courgettes, flowers such as broccoli, and seeds such as pulses. </p>
</body>
</html>
```

## FLOWERS.html

```
<html>
<head>
<title>Flowers</title>
</head>
<body>
<h2>Flowers Details</h2>

<p>A flower, sometimes known as a bloom or blossom, is the reproductive structure found in flowering plants (plants of the division Angiospermae). Flowers produce gametophytes, which in flowering plants consist of a few haploid cells which produce gametes. The "male" gametophyte, which produces non-motile sperm, is enclosed within pollen grains; the "female" gametophyte is contained within the ovule. When pollen from the anther of a flower is deposited on the stigma, this is called pollination. Some flowers may self-pollinate, producing seed using pollen from the same
```

flower or a different flower of the same plant, but others have mechanisms to prevent self-pollination and rely on cross-pollination, when pollen is transferred from the anther of one flower to the stigma of another flower on a different individual of the same species. </p>

</body>

</html>

## TREES.html

<html>

<head>

<title>Trees</title>

</head>

<body>

<h2>TREES Details</h2>



<p>In botany, a tree is a perennial plant with an elongated stem, or trunk, usually supporting branches and leaves. In some usages, the definition of a tree may be narrower, including only woody plants with secondary growth, plants that are usable as lumber or plants above a specified height. In wider definitions, the taller palms, tree ferns, bananas, and bamboos are also trees. Trees are not a monophyletic taxonomic group but consist of a wide variety of plant species that have independently evolved a trunk and branches as a way to tower above other plants to compete for sunlight. The majority of tree species are angiosperms or hardwoods; of the rest, many are gymnosperms or softwoods. Trees tend to be long-lived, some reaching several thousand years old. Trees have been in existence for 370 million years. It is estimated that there are around three trillion mature trees in the world. </p>

</body>

</html>

## RESULT

The HTML page to demonstrate HTML frame tags has been designed.

## HTML FORM

## AIM

Create a Student Registration Form

## SOURCE CODE

```
<html>
<head><title></title></head>
<body>
<h2 align="center">Student Registration Form</h2>
<table border="1" align="center">
<tr><td> First Name</td>
<td><input type="text" name="fname" >(max 30 characters)</input> </td></tr>
<tr><td>Last Name</td>
<td><input type="text" name="lname" >(max 30 characters)</input></td></tr>
<tr><td> Date Of Birth</td> <td> <input type="date" name="dob" ></input></td></tr>
<tr><td> Email</td><td><input type="email" name="mail" ></input></td></tr>
<tr><td>MOBILENUMBER</td><td><input type="number" name="pno">
</input>(10DIGITS)</td></tr>
<tr><td>GENDER </td>
<td><input type="radio" name="b name" value="gender">Male
<input type="radio" name="b name" value="gender">female
</td></tr>
<tr><td>ADDRESS</td>
<td><textarea name="adress" id="adress" cols="30" rows="3"></textarea>
</td></tr>
<tr><td>CITY</td>
<td><input type="text" name="city" ></input>(Maximum 30 characters)
</td></tr>
<tr><td>PINCODE</td>
<td><input type="number" name="pin" ></input>(6 digit number)
</td></tr>
<tr><td>STATE</td>
<td><input type="text" name="state" ></input>(Maximum 30 characters)
</td></tr>
<tr><td>COUNTRY</td>
<td><input type="text" name="country" value="India"></input>
</td></tr>
<tr><td>HOBBIES</td>
<td><input type="checkbox" name="r name" value="drawing">DRAWING
<input type="checkbox" name="a name" value="swimming">SWIMMING
<input type="checkbox" name="f name" value="singing">singing<br>
<input type="checkbox" name="k name" value="other">OTHERS
<input type="text" name="other">
</td>
</tr>
</tr>
```

```

<tr><td> QUALIFICATION </td>
<td><table><tr>
<th> SI NO.</th>
<th> Examination</th>
<th>Board</th>
<th>Percentage</th>
<th>Year Of Passing</th></tr>
<tr><td>1</td>
<td>class X</td>
<td><input type="text" name="board" ></td>
<td><input type="number" name="boar" ></td>
<td><input type="number" name="year" min="2000" max="2023"></td></tr>
<tr><td>2</td>
<td>class XII</td>
<td><input type="text" name="bod" ></td>
<td><input type="number" name="boar" ></td>
<td><input type="number" name="year" min="2000" max="2023"></td> </tr>
<tr><td>3</td>
<td>GRADUATION</td>
<td><input type="text" name="board" > </td>
<td><input type="number" name="boar" ></td>
<td><input type="number" name="year" min="2000" max="2023"></td></tr>
<tr><td>4</td>
<td>MASTERS</td>
<td><input type="text" name="board" ></td>
<td><input type="number" name="boar" ></td>
<td><input type="number" name="year" min="2000" max="2023"></td></tr>
<tr><td></td><td></td>
<td>(10 character max) </td>
<td>(Upto 2 decimal) </td> </td> </tr>
</table></td></tr>
<tr><td>COURSE APPLIED FOR</td>
<td><input type="radio" value="mca" name="course">Mca
<input type="radio" value="mtech" name="course">M.tech
<input type="radio" value="msc" name="course">Msc
<input type="radio" value="phd" name="course">Phd
</td> </tr>
<tr><td>TYPE YOUR PASSWORD</td>
<td><input type="text" name="password">(Max 30 character)</td></tr>
<tr><td>UPLOAD YOUR PHOTO</td>
<td><input type="file" name="photo"></td></tr>
<tr><td>DATE OF TC</td>
<td><input type="date" name="tc" ></input></td></tr>
<tr><td colspan="2" align="center"><input type="submit" value="submit" >
<input type="Reset" value="Reset" ></td></tr></table>
</body>
</html>

```

## RESULT

The HTML page to demonstrate form tags has been designed.

**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 colored and center aligned and all <h2> tags as white colored with background color blue.
- e. Display <p> elements with a border
- f. Change the background color of the page to yellow.

**SOURCE CODE**

```
<html>
<head>
<title>Biodata</title>
<style>
  body{
    background-color:yellow;
  }
  h1 {
    text-align:center;
    color:red;
  }
  h2 {
    color:white;
    background-color:blue;
  }
  p{
    border-width:3px;
    border-color:black;
    border-style:solid;
  }
</style>
</head>
<body>
<h1>JITHIN S JOHN </h1>
<ul>
<li>
<h2>PERSONAL DETAILS</h2>
<h3>PALLIPEEDIKAYIL(H)<br>
PAMPADY,KOTTAYAM<br>KERALA</h3>
</li>
```

```
</li>
<h2> EDUCATIONAL DETAILES</h2>
<h3>Graduated BCA<br>
PG persuing</h3></li>
<li>
<h2>HOBBIES</h2>
<h3><ol>
<li>GAMES</li>
<li>READING</li>
<li>MOVIES</li>
</oi>
</ul></h3>
<ul type="none">
<li><p>Phone :1234567892</p></li>
<li><p>mail id: jithin@gmail.com</p>
</ul>
</body>
</html>
```

## RESULT

The HTML page of biodata to demonstrate internal css has been designed.

## **HTML PAGE WITH EXTERNAL STYLE SHEETS**

### **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.

### **SOURCE CODE**

#### **INDEX.html**

```
<html>
<head>
<link rel="stylesheet" href="css/style8.css">
<title>STYLE SHEET</title></head>
<body>
<p><strong>SELECTOR1</strong></p>
<div class="selector1">
This paragraph uses the selector1 from the style.css file.</div>
<h1>Heading tag with css</h1>
<div class="selector2">
This paragraph uses the selector2 from the style.css file.</div>
<p>This paragraph is styled using p as element selector</p>
</body>
</html>
```

#### **STYLE8.css**

```
.selector1 {
    color:red;
    background-color:yellow;}
.selector2{
color:blue;
    background-color:lightgreen;}
p {
color:green;
    background-color:pink;}
h1{
    color:blue;
    background-color:red; }
```

### **RESULT**

The HTML page to demonstrate external css has been designed



**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.

**SOURCE CODE****INDEX.html**

```
<html>
<head>
<link rel="stylesheet" href="css/style9.css">
<title>STYLE SHEET</title>
</head>
<body>
<table id="one">
<tr>
<th>SI.NO</th>
<th>ADMISSION.NO</th>
<th>NAME</th>
<th>EMAIL-ID</th>
</tr>
<tr>
<td>1</td>
<td>85921</td>
<td>lal</td>
<td>lal@gmail.com</td>
</tr>
<tr>
<td>2</td>
<td>85922</td>
<td>Roy</td>
<td>roy@gmail.com</td>
</tr>
<tr>
<td>3</td>
<td>85923</td>
```

```

<td>Nikhil</td>
<td>nikhil@gmail.com</td>
</tr>
<tr>
<td>4</td>
<td>85924</td>
<td>Raj</td>
<td>ral@gmail.com</td>
</tr>
</table>
</body>
</html>

```

## STYLE9.css

```

#one
{
  color:black;
  width:100%;
  border-collapse:collapes;
  font-family:san-serif;
}
th
{
  padding-top:20px;
  padding-bottom:20px;
  background-color:#b22222;
  border:2px solid grey;
  color:white;
  text-align:left;
}
td
{
  padding:8px;
  border:2px solid grey;
}
tr:nth-child(even)
{
  background-color:#f2f2f2;
}
tr:hover
{
  background-color:burlywood;
}

```

## RESULT

The HTML page to demonstrate external css to create a stripped table has designed.

**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>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <style>
    #img{
      text-align: center;
    }
  </style>
</head>
<body>
  <h2 style="background-color: red;">center an image</h2>
  <br>
  <div id="img"></div>
  <br>
  <h1 style="background-color: red;">FOX</h1>
</body>
</html>
```

**RESULT**

The HTML page to demonstrate internal css to center a image has designed.

**HTML PAGE WITH NAVIGATION BAR USING CSS****AIM**

- 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.

**SOURCE CODE****INDEX.html**

```
<!DOCTYPE html>
<head>
  <title>Document</title>
  <link rel="stylesheet" href="css/style11.css"></head>
  <body>
    <div class="sidenav">
      <a href="aboutus.html" target="details">About us</a>
      <br><br>
      <a href="department.html" target="details">Departments</a>
      <br><br>
      <a href="mission.html" target="details">Mission and Vision</a>
      <br><br>
      <a href="contact.html" target="details">Contact us</a> </div>
    <div class="main">
      <h1>SIDEBAR</h1> </div>
      <div class="frame" >
        <iframe name="details" src="" width="800px" height=100% frameborder="1"></iframe>
      </div>
  </body></html>
```

## STYLE11.css

```
a{
    text-decoration: none;
    padding:6px 8px 6px 16px;
    color: white;
}
.sidenav
{
    height: 100%;
    background-color: green;
    width: 160px;
    padding-top: 20px;
    position: absolute;
    top: 1%;
    left: 1%;
}
body
{ margin: 0;
}
a:hover
{ color: red;
}
.main
{ margin-left: 200px;
  padding: 0px 10px 0px 10px;
}
.frame{ height: 90%;
width: 100%;
padding-right:10%;
position: absolute;
top: 10%;
padding-left: 180px;
}
```

## RESULT

The HTML page to demonstrate external css and create a full size navigation bar.

**CHANGE BACKGROUND COLOUR OF WEBPAGE USING JAVASCRIPT****AIM**

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

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

**SOURCE CODE****INDEX.html**

```
<html>
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Change Background</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <h1>hello</h1>

  <script>
    document.addEventListener("click", () => {
      document.body.style.background = "red";
    })
    document.addEventListener("dblclick", () => {
      document.body.style.background = "green";
    })
  </script>
</body>
</html>
```

**STYLE12.css**

```
*{
margin: 0;
padding: 0;
}
body{
height: 100vh;
display: grid;
place-items: center;
background-color: black;
transition: .5s;
}
```

```
h1 {  
  font-size: 6rem;  
  letter-spacing: 3px;  
  user-select: none;  
  color: white;  
}
```

## **RESULT**

The HTML page to demonstrate change background color using javascript.

**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****INDEX.html**

```
<html>
<head>
  <title>Document</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  
  <div>
    <button id="on">Turn On</button>
    <button id="off">Turn Off</button>
  </div>
  <script>
    document.getElementById("on").addEventListener("click",()=>{
      document.getElementById("img").src="on.jpg"
    })
    document.getElementById("off").addEventListener("click",()=>{
      document.getElementById("img").src="off.jpg"
    })
  </script>
</body>
</html>
```

**STYLE13.css**

```
*{
  margin: 0;
  padding: 0;
  box-sizing: border-box;
  font-family: Arial, Helvetica, sans-serif;
}
Img
{
  height: 400px;
}
```



```
body{
  height: 100vh;
  background-color: black;
  display: flex;
  justify-content: center;
  align-items: center;
  flex-direction: column;
}
button{
  padding: 8px 16px;
  border-radius: 20px;
  margin: 20px 10px;
  background-color: rgb(255, 170, 0) ;
  border: 2px solid rgb(255, 170, 0);
  cursor: pointer;
  transition: .3s;
  user-select: none;
}
button:active{
  background-color: black;
  border: 2px solid white;
  color: rgb(255, 170, 0);
}
```

## RESULT

The HTML page to demonstrate on/off of blub using javascript.

**VALIDATE INPUT FIELDS IN A FORM USING JAVASCRIPT****AIM**

Validate the following user inputs in the Student Registration Form

- a) First Name should not be blank
- b) Value should be selected for Day, Month and Year in Date of Birth
- c) Mobile number length should be 10
- d) At least one option is selected for Course field

**SOURCE CODE****INDEX.html**

```
html>
<head>
  <title>REG FORM WITH VALIDATION</title>

  <script src="script12.js"></script>
</head>

<body>
  <h2 align="center">Student Registration Form</h2>

  <form name="myForm" onsubmit=" return validateForm()">
    <table border="1" align="center">
      <tr>
        <td>First Name</td>
        <td><input type="text" name="fname">(max 30 characters) </input>
        <p id="fnameWarning" style="color:red;"></p>
      </td></tr>
      <tr>
        <td>Last Name</td>
        <td><input type="text" name="lname">(max 30 characters)</input>
        <p id="lnameWarning" style="color:red;"></p>
      </td></tr>
      <tr>
        <td>Date Of Birth</td>
        <td> DAY:
        <input type="number" name="dobday"></input>
        <p id="dobdayWarning" style="color:red;"></p>
        MONTH:
        <input type="number" name="dobmonth"></input>
        <p id="dobmonthWarning" style="color:red;"></p>
        YEAR:
        <input type="number" name="dobyear"></input>
        <p id="dobyearWarning" style="color:red;"></p>
      </td></tr>
    </table>
  </form>
</body>
```

```

<tr> <td>Email</td>
  <td><input type="email" name="mail"></input></td>
</tr>
<tr>
  <td>MOBILE NUMBER</td>
  <td><input type="number" name="ph"></input>(10 DIGITS)
  <p id="mobileWarning" style="color:red;"></p></td>
</tr>
<tr>
  <td>GENDER</td>
  <td><input type="radio" name="gender" value="gender">Male</input>
  <input type="radio" name="gender" value="gender">Female</input>
</td></tr>
<tr>
  <td>ADDRESS</td>
  <td><textarea name="adress" id="adress" cols="30" rows="3"></textarea></td>
</tr>
<tr><td>CITY</td>
  <td><input type="text" name="city">(Maximum 30 characters)</input></td>
</tr>
<tr><td>PINCODE</td>
  <td><input type="number" name="pin">(6 digit number)</input></td>
</tr>
<tr><td>STATE</td>
  <td><input type="text" name="state">(Maximum 30 characters)</input></td>
</tr>
<tr><td>COUNTRY</td>
  <td><input type="text" name="country" value="India"></input></td>
</tr>
<tr><td>HOBBIES</td>
  <td>
    <input type="checkbox" name="r name" value="drawing">DRAWING
    <input type="checkbox" name="a name" value="swimming">SWIMING
    <input type="checkbox" name="f name" value="singing">SINGING
    <input type="checkbox" name="k name" value="other">OTHERS
    <input type="text" name="other"></td></tr>
<tr><td> QUALIFICATION</td>
  <td>
    <table><tr>
      <th>SI NO.</th>
      <th>Examination</th>
      <th>Board</th>
      <th>Percentage</th>
      <th>Year Of Passing</th></tr>
      <tr>
        <td>1</td>
        <td>class X</td>
        <td><input type="text" name="board"></td>
        <td><input type="number" name="percentage"></td>
        <td><input type="number" name="year" min="2000" max="2023"></td></tr>

```

```

<tr>
<td>2</td>
<td>class XII</td>
<td><input type="text" name="board"></td>
<td><input type="number" name="percentage"></td>
<td><input type="number" name="year" min="2000" max="2023"></td> </tr>
<tr> <td>3</td>
<td>GRADUATION</td>
<td><input type="text" name="board"></td>
<td><input type="number" name="percentage"></td>
<td><input type="number" name="year" min="2000" max="2023"></td> </tr>
<tr> <td>4</td>
<td>MASTERS</td>
<td><input type="text" name="board"></td>
<td><input type="number" name="percentage"></td>
<td><input type="number" name="year" min="2000" max="2023"></td> </tr>
<tr><td></td><td></td>
<td>(10 character max)</td>
<td>(Upto 2 decimal)</td> </tr>
</table></td> </tr>
<tr>
<td>COURSE APPLIED FOR</td>
<td><input type="radio" value="mca" name="course">Mca
<input type="radio" value="mtech" name="course">M.tech
<input type="radio" value="msc" name="course">Msc
<input type="radio" value="phd" name="course">Phd
<p id="courseWarning" style="color:red;"></p></td></tr>
<tr><td>TYPE YOUR PASSWORD</td>
<td><input type="text" name="password">(Max 30 character)</td> </tr>
<tr> <td>UPLOAD YOUR PHOTO</td>
<td><input type="file" name="photo"></td></tr>
<tr><td>DATE OF TC</td>
<td><input type="date" name="tc"></td> </tr>
<tr><td colspan="2" align="center"><input type="submit" value="submit">
<input type="reset" value="Reset"></td></tr>
</table>
</form>
</body>
</html>

```

## SCRIPT14.js

```

function validateForm() {
var fname = document.forms["myForm"]["fname"].value;
var lname = document.forms["myForm"]["lname"].value;
var dobday = document.forms["myForm"]["dobday"].value;
var dobmonth = document.forms["myForm"]["dobmonth"].value;
var dobyear = document.forms["myForm"]["dobyear"].value;
var mobile = document.forms["myForm"]["ph"].value;
var course = document.querySelector('input[name="course"]:checked');

```

```

var fnameWarning = document.getElementById("fnameWarning");
var lnameWarning = document.getElementById("lnameWarning");
var dobdayWarning = document.getElementById("dobdayWarning");
var dobmonthWarning = document.getElementById("dobmonthWarning");
var dobyearWarning = document.getElementById("dobyearWarning");
var mobileWarning = document.getElementById("mobileWarning");
var courseWarning = document.getElementById("courseWarning");

fnameWarning.innerHTML = "";
lnameWarning.innerHTML = "";
dobdayWarning.innerHTML = "";
dobmonthWarning.innerHTML = "";
dobyearWarning.innerHTML = "";
mobileWarning.innerHTML = "";
courseWarning.innerHTML = "";

if (fname.trim() === "") {
    fnameWarning.innerHTML = "First Name should not be blank";
    document.myForm.fname.focus();
    return false;
}
if (lname.trim() === "") {
    lnameWarning.innerHTML = "Second Name should not be blank";
    document.myForm.lname.focus();
    return false;
}

if (dobday === "") {
    dobdayWarning.innerHTML = "Please select the Date";
    document.myForm.dobday.focus();
    return false;
}

if (dobmonth === "") {
    dobmonthWarning.innerHTML = "Please select the MONTH";
    document.myForm.dobmonth.focus();
    return false;
}

if (dobyear === "") {
    dobyearWarning.innerHTML = "Please select the YEAR";
    document.myForm.dobyear.focus();
    return false;
}

const day = dobday;
const month = dobmonth;
if (dobday < 1 || dobday > 31) {
    document.getElementById("dobdayWarning").innerHTML =
        "Invalid day values.";
    document.myForm.dobday.focus();
    return false;
}

```

```
if(dobmonth < 1 || dobmonth > 12){
    document.getElementById("dobmonthWarning").innerHTML =
        "Invalid month values.";
    document.myForm.dobmonth.focus();
    return false;
}

if(dobyyear < 1900 || dobyyear > 2100){
    document.getElementById("dobyyearWarning").innerHTML =
        "Invalid year values.";
    document.myForm.dobyyear.focus();
    return false;
}

if (mobile.length !== 10) {
    mobileWarning.innerHTML = "Mobile number should be 10 digits long";
    document.myForm.ph.focus();
    return false;
}

if (!course) {
    courseWarning.innerHTML = "Please select a course";
    return false;
}

alert("Form submitted Successfully");
return true;
}
```

## RESULT

The HTML page to demonstrate form tags and validate input using javascript.

**ODD OR EVEN CHECK OF A NUMBER****AIM**

Write a PHP program to check whether the given number is odd or even.[ Hint: Number should be read using Textbox, Use GET Method]

**SOURCE CODE**

```
<html>
<body>
<form method="get">
    Enter a number:
    <input type="number" name="number">
    <input type="submit" value="Submit">
</form>
</body>
</html>
<?php
    if($_GET)
    {
        $number = $_GET['number'];
        if( $number==0)
        {
            echo "$number is nither odd or even";
        }
        else if(($number % 2) == 0)
        {
            echo "$number is an Even number";
        }
        else
        {
            echo "$number is Odd number";
        }
    }
?>
```

**RESULT**

The PHP program to check whether the given number is odd or even using GET method.

**FACTORIAL OF A NUMBER****AIM**

Write a PHP program to print the factorial of a number [ Hint: use for loop, Number should be read using Textbox, Use POST Method].

**SOURCE CODE****INDEX.html**

```
<html>
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Factorial Calculator</title>
</head>
<body>

  <h2>Factorial Calculator</h2>

  <form method="post" action="calculate.php">
    Enter a number:
    <input type="text" name="number" required>
    <input type="submit" value="Calculate">
  </form>

</body>
</html>
```

**CALCULATE.php**

```
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST")
{
  $number = isset($_POST["number"]) ? $_POST["number"] : "";
  if (!is_numeric($number))
  {
    echo "Invalid input. Please enter a valid number.";
    exit;
  }
  $number = (int)$number;
  function factorial($n) {
    if ($n < 0)
    {
      return "Factorial is not defined for negative numbers.";
    }
  }
  elseif ($n == 0 || $n == 1)
  {

```



```
        return 1;
    }

    else {
        return $n * factorial($n - 1);
    }
}
$result = factorial($number);
echo "The factorial of $number is $result";
}

?>
```

## **RESULT**

The PHP program to print the factorial of a number using POST method.

**FORM HANDLING - STUDENT DETAILS****AIM**

Develop a PHP web application for reading details of a student such as Name, Email Id, Address, Gender, Date of Birth etc and display details when submit button is pressed.

[Use \$\_REQUEST variable:The \$\_REQUEST variable is a super global variable, which can hold the content of both \$\_GET and \$\_POST variable.]

**SOURCE CODE****INDEX.html**

```
<html>
<head>
  <title>Student Details Form</title>
  <style>
    textarea{
      width:150px;
      height:50px;
      margin-left:80px;
      margin-top:-15px;
    }
  </style>
</head>
<body>
  <form action="student.php" method="post">
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" required><br><br>

    <label for="email">Email:</label>
    <input type="email" id="email" name="email" required><br><br>

    <label for="address">Address:</label><br>
    <textarea id="address" name="address" rows="1" required></textarea><br><br>

    <label>Gender:</label>
    <input type="radio" id="male" name="gender" value="Male" required>

    <label for="male">Male</label>
    <input type="radio" id="female" name="gender" value="Female" required>
    <label for="female">Female</label><br><br>
    <label for="dob">Date of Birth:</label>
    <input type="date" id="dob" name="dob" required><br><br>
    <button type="submit">Submit</button>
  </form>
</body>
</html>
```

## STUDENT.php

```
<?php

if ($_SERVER["REQUEST_METHOD"] == "POST")
{
    $name = $_REQUEST['name'];
    $email = $_REQUEST['email'];
    $address = $_REQUEST['address'];
    $gender = $_REQUEST['gender'];
    $dob = $_REQUEST['dob'];

    echo "<h2>Student Details:</h2>";
    echo "<p><strong>Name:</strong> $name</p>";
    echo "<p><strong>Email:</strong> $email</p>";
    echo "<p><strong>Address:</strong> $address</p>";
    echo "<p><strong>Gender:</strong> $gender</p>";
    echo "<p><strong>Date of Birth:</strong> $dob</p>";
}
else
{
    echo "Invalid request method. Please use the form to submit data.";
}
?>
```

## RESULT

The PHP program using \$\_REQUEST variable as a super global variable and display the result.

## **PHP AND MYSQL- BOOK INFORMATION**

### **AIM**

Using PHP and MySQL, develop a program to accept book information such as book\_no (primary key), title, edition and publisher from a web page and store the information in a table named 'book\_details'. Also display the details of all books using a HTML Table.

### **SOURCE CODE**

#### **INDEX.html**

```
<html>
<head>
<title> LIBRARY BOOK FORM </title>
</head>
<body>
<h2>BOOK INFORMATION FORM</h2>
<form method="POST" action="form.php">
  <label>BOOK NO:</label>
  <input type="text" name="book_no" required><br>
  <label>TITLE</label>
  <input type="text" name="title" required><br>
  <label>Edition:</label>
  <input type="text" name="edition" required><br>
  <label>PUBLISHER</label>
  <input type="text" name="publisher" required><br>
  <input type="submit" value="submit">
</form>
</body>
</html>
```

#### **FORM.php**

```
<?php
$host = "localhost";
$username = "root";
$password = "";
$database = "book";

$conn = new mysqli($host, $username, $password, $database);

if ($_SERVER["REQUEST_METHOD"] == "POST") {
  $book_no = $_POST["book_no"];
  $title = $_POST["title"];
  $edition = $_POST["edition"];
  $publisher = $_POST["publisher"];
```

```
$sql = "INSERT INTO `book_details` (book_no, title, edition, publisher) VALUES ('$book_no', '$title', '$edition', '$publisher')";
```

```
if ($conn->query($sql) === TRUE) {  
    echo "SUCCESSFULLY STORED";  
} else {  
    echo "ERROR: " . $conn->error;  
}  
$conn->close();  
}
```

```
?>
```

### **CHECK.php**

```
<?php
```

```
$host = "localhost";  
$username = "root";  
$password = "";  
$database = "book";
```

```
$conn = new mysqli($host, $username, $password, $database);
```

```
if($conn->connect_error)
```

```
{  
    die("connection failed". $conn->connect_error);  
}
```

```
$result = mysqli_query($conn, "SELECT * FROM book_details");
```

```
if (mysqli_num_rows($result) > 0) {
```

```
    echo "<h2>Book Details:</h2>";
```

```
    echo "<table border='1'>";
```

```
    echo "<tr><th>Book No</th><th>Title</th><th>Edition</th><th>Publisher</th></tr>";
```

```
    while ($row = mysqli_fetch_assoc($result))  
    {
```

```
        echo "<tr><td>{$row['book_no']}</td><td>{$row['title']}</td><td>{$row['edition']}</td><td>{$row['publisher']}</td></tr>";
```

```
    }
```

```
    echo "</table>";
```

```
}
```

```
else
```

```
{
```

```
    echo "No books found.";
```

```
}
```

```
mysqli_close($conn);
```

```
?>
```

```
<html>
```

```
<head>
```

```
    <title>Book Details</title>
```

```
</head>
```

```
<body>

<form method="post" action="form.php">
  <label for="book_no">Book No:</label>
  <input type="text" name="book_no" required><br>

  <label for="title">Title:</label>
  <input type="text" name="title" required><br>

  <label for="edition">Edition:</label>
  <input type="text" name="edition" required><br>

  <label for="publisher">Publisher:</label>
  <input type="text" name="publisher" required><br>

  <input type="submit" value="Add Book">
</form>
</body>
</html>
```

## DATABASE

DATABASE: `book`

```
CREATE TABLE `book_details` (
  `book_no` int(8) NOT NULL PRIMARY KEY,
  `title` varchar(255) NOT NULL,
  `edition` varchar(50) NOT NULL,
  `publisher` varchar(255) NOT NULL
)
```

## RESULT

The PHP and MySQL program to accept book information and display the details of all books using a HTML Table.

**PHP AND MYSQL LOGIN AND WELCOME PAGE****AIM**

Create a Login form using PHP. The user is first served a login page which takes username and password . After submitting the details the server checks these values against the data from a database and takes the following decisions:

- a) If username and password matches, user must be redirected to a welcome page displaying a welcome message for user.
- b) b) If username matches and password doesn't match then display the message "Incorrect password".
- c) If password matches and username doesn't match then display the message "Incorrect username".

**SOURCE CODE****INDEX.php**

```
<html>
<head>
    <title>Login Form</title>
</head>
<body>
    <h2>Login Form</h2>
    <form method="GET" action="">
        <label for="username">Username:</label>
        <input type="text" name="username" required><br>

        <label for="password">Password:</label>
        <input type="password" name="password" required><br>

        <input type="submit" value="Login" name="sbtn">
    </form>

<?php
$servername = "localhost";
$username = "root";
$password = "";
$db = "userlogin";

$conn = mysqli_connect($servername, $username, $password, $db);

if ($conn)
{
    if (isset($_REQUEST["sbtn"]))
    {
        $username = $_REQUEST["username"];
        $password = $_REQUEST["password"];
        $sql = "SELECT * FROM users_table";
        $result = mysqli_query($conn, $sql);
```

```

while ($row = mysqli_fetch_array($result)) {
    if (($row['username'] == $username) && ($row['password'] == $password)) {
        header("Location: welcome.php?username=".$username);
        exit();
    }
    else {
        echo "<script>alert('Incorrect Username or Password')</script>";
    }
}

mysqli_close($conn);
}

?>
</body>
</html>

```

## WELCOME.php

```

<html>
<head>
    <title>Welcome</title>
</head>
<body>
    <h2>Welcome</h2>

    <?php
        $username = isset($_GET['username']) ? htmlspecialchars($_GET['username']) : "";

        echo "<p>Welcome, $username!</p>";
    ?>

    <p>This is the welcome page.</p>
</body>

</html>

```

## DATABASE

DATABASE: `userlogin`

```

CREATE TABLE `users_table` (
  `username` varchar(20) NOT NULL,
  `password` varchar(20) NOT NULL
)

```

## RESULT

Login form using PHP and MYSQL database executed successfully.



**PHP - STUDENT INFORMATION - COOKIES****AIM**

PHP web application using MySQL database to register, login and display student information. Use PHP Cookies to retrieve information from login.

**SOURCE CODE****INDEX.html**

```
<html>
<head>
  <title>Login</title>
  <link rel="stylesheet" href="css/login-styles.css">
</head>

<body>
  <form method="get" action="login.php">
    <h2>Student Login</h2>
    <div>
      <label for="username">Email </label>
      <input type="text" name="email" id="username" required>
    </div>

    <div>
      <label for="password">Password </label>
      <input type="password" name="password" id="password" required>
    </div>

    <button type="submit" name="login" value="login">Login</button>
    <p class="register-link">New user? <a href="register.php">Register here</a></p>
  </form>
</body>
</html>
```

**LOGIN.php**

```
<?php
$host = "localhost";
$username = "root";
$password = "";
$database = "userlogin";
$conn = mysqli_connect($host, $username, $password, $database);
if ($conn) {
  if (isset($_REQUEST["login"])) {
    $mail = $_REQUEST["email"];
    $password = $_REQUEST["password"];
```

```

$sql = "SELECT * FROM students";
$result = mysqli_query($conn, $sql);

while ($row = mysqli_fetch_array($result)) {
    if (($row['mail'] == $mail) && ($row['password'] == $password)) {
        setcookie("user_email", $mail, time() + (86400 * 30), "/");
        header("Location:student-details.php");
        exit();
    } else {
        $flag=0;
    }
}
if($flag==0){
    echo "<script> alert('Incorrect Username or Password') </script>";
}
}

mysqli_close($conn);
}

?>

```

## REGISTRATION.php

```

<html>
<head>
    <title>Student Registration Form</title>
    <link rel="stylesheet" href="css/register-styles.css">
</head>

<body>
    <h2>Student Registration Form</h2>
    <form method="post" action="">
        <table>
            <tr>
                <td>
                    <label for="fname">First Name:</label>
                    <input type="text" name="fname" maxlength="30" required>
                </td>
            </tr>
            <tr>
                <td>
                    <label for="lname">Last Name:</label>
                    <input type="text" name="lname" maxlength="30" required>
                </td>
            </tr>
            <tr>
                <td>
                    <label for="dob">Date Of Birth:</label>
                    <input type="date" name="dob" required>
                </td>
            </tr>
        </table>
    </form>

```

```

<tr>
  <td>
    <label for="mail">Email:</label>
    <input type="email" name="mail" required>
  </td>
</tr>
<tr>
  <td>
    <label for="pno">Mobile Number:</label>
    <input type="tel" name="pno" pattern="[0-9]{10}" required>
  </td>
</tr>

<tr>
  <td class="gender">
    <label>Gender:</label>
    <label><input type="radio" name="gender" value="male" required> Male</label>
    <label><input type="radio" name="gender" value="female" required> Female</label>
  </td>
</tr>

<tr>
  <td>
    <label for="password">Password:</label>
    <input type="password" name="password" maxlength="30" required>
  </td>
</tr>

<tr>
  <td class="colspan2">
    <button type="submit" name="submit" value="submit">Submit</button>
  </td>
</tr>
</table>
<p class="login-link">Already have an account? <a href="index.php">Login</a></p>
</form>

```

```

<?php
$host = "localhost";
$username = "root";
$password = "";
$database = "userlogin";

$conn = mysqli_connect($host, $username, $password, $database);

if (!$conn) {
  die("Connection failed: " . mysqli_connect_error());
}

if (isset($_POST['submit'])) {
  $fname = $_POST["fname"];
  $lname = $_POST["lname"];
  $dob = $_POST["dob"];
  $mail = $_POST["mail"];

```

```

$pdo = $ _POST["pno"];
$gender = $ _POST["gender"];
$password = $ _POST["password"];

$sql = "INSERT INTO students (fname, lname, dob, mail, pno, gender, password)
VALUES ('$fname', '$lname', '$dob', '$mail', '$pno', '$gender', '$password')";

if (mysqli_query($conn, $sql)) {
    echo '<script>alert("Registration completed successfully"); window.location.href =
"index.html";</script>';
} else {
    echo "Error: " . $sql . "<br>" . mysqli_error($conn);
}
}
mysqli_close($conn);
?></body>
</html>

```

## STUDENT DETAILS.php

```

<html>
<head>
    <title>User Details</title>
</head>
<body>
    <div class="user-details">
        <h2>Student Details</h2>
        <?php
            if (isset($_COOKIE['user_email'])) {
                $email = $_COOKIE['user_email'];
                $host = "localhost";
                $username = "root";
                $password = "";
                $database = "userlogin";
                $conn = mysqli_connect($host, $username, $password, $database);
                if (!$conn) {
                    die("Connection failed: " . mysqli_connect_error());
                } else {
                    $sql = "SELECT * FROM students WHERE mail = '$email'";
                    $result = mysqli_query($conn, $sql);
                    if ($result && mysqli_num_rows($result) > 0) {
                        $row = mysqli_fetch_assoc($result);
                        ?>
                        <table border=1>
                            <tr>
                                <td><strong>First Name:</strong></td>
                                <td><?php echo $row['fname']; ?></td>
                            </tr>
                            <tr>
                                <td><strong>Last Name:</strong></td>
                                <td><?php echo $row['lname']; ?></td>
                            </tr>
                            <tr>
                                <td><strong>Date of Birth:</strong></td>

```

```

        <td><?php echo $row['dob']; ?></td>
    </tr>
    <tr>
        <td><strong>Email:</strong></td>
        <td><?php echo $row['mail']; ?></td>
    </tr>
    <tr>
        <td><strong>Mobile Number:</strong></td>
        <td><?php echo $row['pno']; ?></td>
    </tr>
    <tr>
        <td><strong>Gender:</strong></td>
        <td><?php echo $row['gender']; ?></td>
    </tr>
</table>
<a class="logout-btn" href="logout.php">Logout</a>
<?php
} else {
    echo '<p class="error-message">User not found</p>';
} }
mysqli_close($conn);
} else {
    echo '<p class="error-message">User email not set</p>';
}
?>
</div>
</body>
</html>

```

## LOGOUT.php

```

<?php
setcookie('user_email', "", time() - 3600, '/');
header('Location: index.html');
exit();
?>

```

## DATABASE

DATABASE: `userlogin`

```

CREATE TABLE `students` (
  `fname` varchar(20) NOT NULL,
  `lname` varchar(20) NOT NULL,
  `dob` date NOT NULL,
  `mail` varchar(20) NOT NULL,
  `pno` varchar(20) NOT NULL,
  `gender` varchar(20) NOT NULL,
  `password` varchar(20) NOT NULL)

```

## RESULT

PHP web application using MySQL database to register, login and display student information using PHP Cookies executed successfully

**PHP - STUDENT INFORMATION -SESSIONS****AIM**

PHP web application using MySQL database to register, login and display student information. Use PHP Sessions to retrieve information from login.

**SOURCE CODE****INDEX.php**

```
<html>
<head>
  <title>Login</title>
</head>
<body>
  <form method="post" action="">
    <h2>Student Login</h2>
    <div>
      <label for="email">Email </label>
      <input type="text" name="email" id="email" required>
    </div>

    <div>
      <label for="password">Password </label>
      <input type="password" name="password" id="password" required>
    </div>

    <button type="submit" name="login" value="login">Login</button>
    <p class="register-link">New user? <a href="register.php">Register here</a></p>
  </form>
</body>
<?php
$host = "localhost";
$username = "root";
$password = "";
$database = "userlogin";
$conn = mysqli_connect($host, $username, $password, $database);
if ($conn) {
  session_start();
  if (isset($_POST["login"])) {
    $mail = $_POST["email"];
    $password = $_POST["password"];
    $sql = "SELECT * FROM students";
    $result = mysqli_query($conn, $sql);
```

```

while ($row = mysqli_fetch_array($result)) {
    if (($row['mail'] == $mail) && ($row['password'] == $password)) {
        $_SESSION["user_email"] = $mail;
        header("Location: student-details.php");
        exit();
    } else {
        $flag = 0;
    } }
    if ($flag == 0) {
        echo "<script> alert('Incorrect Email or Password') </script>";
    } }
    mysqli_close($conn);
}
?>
</html>

```

## REGISTRATION.php

```

<html>
<head>
    <title>Student Registration Form</title>
</head>
<body>
    <h2>Student Registration Form</h2>
    <form method="post" action="">
        <table>
            <tr>
                <td>
                    <label for="fname">First Name:</label>
                    <input type="text" name="fname" maxlength="30" required>
                </td>
            </tr>
            <tr>
                <td>
                    <label for="lname">Last Name:</label>
                    <input type="text" name="lname" maxlength="30" required>
                </td>
            </tr>
            <tr>
                <td>
                    <label for="dob">Date Of Birth:</label>
                    <input type="date" name="dob" required>
                </td>
            </tr>
            <tr>
                <td>
                    <label for="mail">Email:</label>
                    <input type="email" name="mail" required>
                </td>
            </tr>
            <tr>
                <td>
                    <label for="pno">Mobile Number:</label>
                    <input type="tel" name="pno" pattern="[0-9]{10}" required>
                </td>
            </tr>
        </table>
    </form>

```

```

        </td>
    </tr>
    <tr>
        <td class="gender">
            <label>Gender:</label>
            <label><input type="radio" name="gender" value="male" required> Male</label>
            <label><input type="radio" name="gender" value="female" required> Female</label>
        </td>
    </tr>
    <tr>
        <td>
            <label for="password">Password:</label>
            <input type="password" name="password" maxlength="30" required>
        </td>
    </tr>
    <tr>
        <td class="colspan2">
            <button type="submit" name="submit" value="submit">Submit</button>
        </td>
    </tr>
</table>
<p class="login-link">Already have an account? <a href="index.php">Login</a></p>
</form>
<?php
session_start();
$host = "localhost";
$username = "root";
$password = "";
$database = "userlogin";
$conn = mysqli_connect($host, $username, $password, $database);
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error()); }
if (isset($_POST['submit'])) {
    $fname = $_POST["fname"];
    $lname = $_POST["lname"];
    $dob = $_POST["dob"];
    $mail = $_POST["mail"];
    $pno = $_POST["pno"];
    $gender = $_POST["gender"];
    $password = $_POST["password"];
    $sql = "INSERT INTO students (fname, lname, dob, mail, pno, gender, password)
    VALUES ('$fname', '$lname', '$dob', '$mail', '$pno', '$gender', '$password')";
    if (mysqli_query($conn, $sql)) {
        $_SESSION['registration_success'] = true;
        echo '<script>alert("Registration completed successfully"); window.location.href =
"index.php"</script>';
        exit();
    } else {
        echo "Error: " . $sql . "<br>" . mysqli_error($conn);
    } }
mysqli_close($conn);
?>
</body>
</html>

```



## STUDENT DETAILS.php

```
<html>
<head>
  <title>User Details</title>
</head>
<body>
  <div class="user-details">
    <h2>Student Details</h2>
    <?php
      session_start();
      if (isset($_SESSION['user_email'])) {
        $email = $_SESSION['user_email'];
        $host = "localhost";
        $username = "root";
        $password = "";
        $database = "userlogin";
        $conn = mysqli_connect($host, $username, $password, $database);
        if (!$conn) {
          die("Connection failed: " . mysqli_connect_error());
        } else {
          // Fetch user details from the database
          $sql = "SELECT * FROM students WHERE mail = '$email'";
          $result = mysqli_query($conn, $sql);
          if ($result && mysqli_num_rows($result) > 0) {
            $row = mysqli_fetch_assoc($result);
            ?>
            <table border=1>
              <tr>
                <td><strong>First Name:</strong></td>
                <td><?php echo $row['fname']; ?></td>
              </tr>
              <tr>
                <td><strong>Last Name:</strong></td>
                <td><?php echo $row['lname']; ?></td>
              </tr>
              <tr>
                <td><strong>Date of Birth:</strong></td>
                <td><?php echo $row['dob']; ?></td>
              </tr>
              <tr>
                <td><strong>Email:</strong></td>
                <td><?php echo $row['mail']; ?></td>
              </tr>
              <tr>
                <td><strong>Mobile Number:</strong></td>
                <td><?php echo $row['pno']; ?></td>
              </tr>
              <tr>
                <td><strong>Gender:</strong></td>
                <td><?php echo $row['gender']; ?></td>
              </tr>
            </table>
          }
        }
      }
    </div>
  </body>
</html>
```

```

        </table>
        <a class="logout-btn" href="logout.php">Logout</a>
    <?php
    } else {
        echo '<p class="error-message">User not found</p>';
    }
}
mysqli_close($conn);
} else {
    echo '<p class="error-message">User email not set</p>';
}
?>
</div>
</body>
</html>

```

## LOGOUT.php

```

<?php
session_start();
unset($_SESSION['user_email']);
header('Location: index.php');
exit();
?>

```

## DATABASE

DATABASE: `userlogin`

```

CREATE TABLE `students` (
  `fname` varchar(20) NOT NULL,
  `lname` varchar(20) NOT NULL,
  `dob` date NOT NULL,
  `mail` varchar(20) NOT NULL,
  `pno` varchar(20) NOT NULL,
  `gender` varchar(20) NOT NULL,
  `password` varchar(20) NOT NULL)

```

## RESULT

PHP web application using MySQL database to register, login and display student information using PHP Sessions executed successfully