

Exp No: 1 : Basic Html Tags

Aim: To create a simple html file to demonstrate the use of different tags.

Problem Statement :- Add the following tags detail.

1. Set the title of the page as “Basic Html Tags”
2. Within the body perform the following
 - a) Moving text = “Basic HTML Tags”
 - b) Different heading tags (h1 to h6)
 - c) Paragraph
 - d) Horizontal line
 - e) Line Break
 - f) Block Quote
 - g) Pre tag
 - h) Different Logical Style (, <u>, <sub>, <sup>....)
 - i) Different Physical style (<code>, , <kbd>...)
 - j) Listing tags (2 types with, & each type provide different “type” attribute)

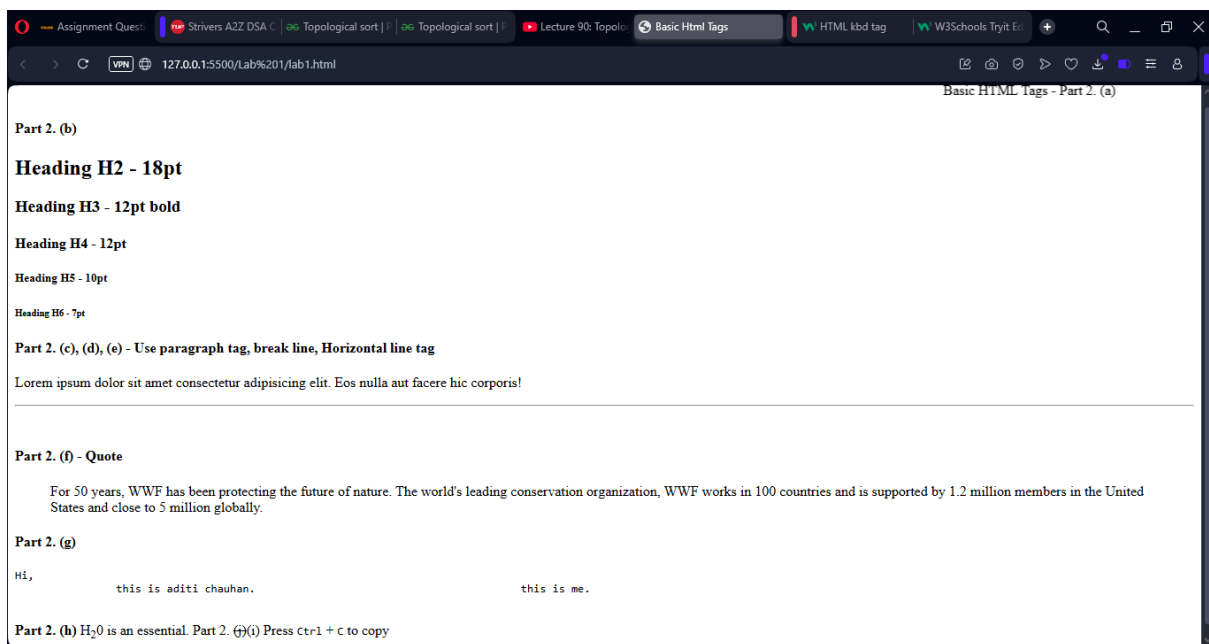
CODE:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Basic Html Tags</title>
  </head>
  <body>
    <marquee>Basic HTML Tags - Part 2. (a)</marquee>
    <h4>Part 2. (b)</h2>
    <h2>Heading H2 - 18pt</h2>
    <h3>Heading H3 - 12pt bold</h3>
    <h4>Heading H4 - 12pt</h4>
    <h5>Heading H5 - 10pt</h5>
    <h6>Heading H6 - 7pt</h6>

    <h4>Part 2. (c), (d), (e) - Use paragraph tag, break line, Horizontal line tag</h4>
    <p>
      Lorem ipsum dolor sit amet consectetur adipisicing elit. Eos nulla aut
      facere hic corporis!
    </p>
    <hr />
    <br />
    <h4>Part 2. (f) - Quote </h4>
    <blockquote cite="http://www.worldwildlife.org/who/index.html">
      For 50 years, WWF has been protecting the future of nature. The world's
      leading conservation organization, WWF works in 100 countries and is
      supported by 1.2 million members in the United States and close to 5
```

```
    million globally.
</blockquote>
<h4>Part 2. (g)</h4>
<pre>Hi,
this is aditi chauhan.          this is me.
</pre>
<p>
    <b>Part 2. (h)</b>
    H<sub>2</sub><superscript>0 is an essential. </superscript>
    Part 2.
    <del>(j)</del>(i)
    Press <kbd>Ctrl</kbd> + <kbd>C</kbd> to copy
</p>
</body>
</html>
```

OUTPUT:



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Exp No: 2 : Html Tags (List, Table)

Aim: To create a simple html file to demonstrate the use of different tags.

Problem Statement 2.1: Create HTML file to demonstrate use of list tags and its different types.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <h3 style="text-align:center">Here is nested ordered list:</h3>
  <ol type="I">
    <li>Module 1</li>
    <li>Module 2
      <ol type="i">
        <li>Module 2.1</li>
        <li>Module 2.2</li>
      </ol>
    </li>
    <li>Module 3</li>
  </ol>

  <h3>Disc Bullets list:</h3>
```

```
<ul>
  <li>Keyboard</li>
  <li>Mouse</li>
  <li>Monitor</li>
</ul>
```

```
<h3>Circle bullets list</h3>
<ul type="circle">
  <li>CRT</li>
  <li>LCD</li>
  <li>LED</li>
</ul>
```

```
<h4>Square Bullets list:</h4>
<ul type="square">
  <li>Windows</li>
  <li>Linux</li>
  <li>Android</li>
</ul>
```

```
<h4>Description list</h4>
<dl>
  <dt>Black Coffee</dt>
  <dd> - Black Hot Drink with no milk</dd>
  <dt>Latte</dt>
  <dd> - Milk and sugar included</dd>
</dl>
```

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</body>

</html>

OUTPUT

```

I. Module 1
II. Module 2
    i. Module 2.1
    ii. Module 2.2
III. Module 3

Disc Bullets list:
    • Keyboard
    • Mouse
    • Monitor

Circle bullets list
    o CRT
    o LCD
    o LED

Square Bullets list:
    ■ Windows
    ■ Linux
    ■ Android

Description list
Black Coffee
    - Black Hot Drink with no milk
Latte
    - Milk and sugar included

```

Problem Statement 2.2: Create HTML file to display a timetable using table tag

CODE:

Timetable.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
    <link rel="stylesheet" href="style.css" />
  </head>
  <body>
    <div id="Headings">
      <p>
        <span>Goverment Polytechnic College</span>
        <span>Department of Computer Engineering</span>
        <span>TIMETABLE EFFECTIVE FROM: 01-07-2016</span>
      </p>
    </div>
    <table border="2px">
      <tr>
        <th id="periods">Periods</th>
        <th rowspan="2">
          1 <br />
          9:00 - 9:55
        </th>
        <th rowspan="2">
```

```

        2 <br />
        9:55 - 10:50
    </th>
    <th rowspan="2">
        3 <br />
        11:00 - 11:55
    </th>
    <th rowspan="2">
        4 <br />
        11:55 - 1:00
    </th>
    <th rowspan="2">
        5 <br />
        2:00 - 2:50
    </th>
    <th rowspan="2">
        6 <br />
        2:55 - 3:45
    </th>
    <th rowspan="2">
        7 <br />
        3:45 - 4:30
    </th>
</tr>
<tr>
    <td id="days">Days</td>
</tr>
<tr>

```

```

        <td class="day">Monday</td>
        <td>IT - 302</td>
        <td>IT - 306</td>
        <td>IT - 302</td>
        <td>IT - 306</td>
        <td>IT - 306</td>
        <td colspan="2">IT - 2034</td>
    </tr>

    <tr>
        <td class="day">Tuesday</td>
        <td colspan="4" id="first">IT - 302</td>
        <td id="second">IT - 306</td>
        <td>IT - 306</td>
        <td>IT - 306</td>

    </tr>

    <tr>
        <td class="day">Wednesday</td>
        <td colspan="2" id="third">Elective - 1</td>
        <td>IT - 306</td>
        <td>IT - 302</td>
        <td>IT - 306</td>
        <td>IT - 306</td>
        <td colspan="2">IT - 2034</td>
    </tr>

```

```

<tr>
  <td class="day">Thursday</td>
  <td>IT - 302</td>
  <td>IT - 306</td>
  <td colspan="2">IT - 302</td>
  <td colspan="3" id="fourth">IT - 2034</td>
</tr>

<tr>
  <td class="day">Friday</td>
  <td>IT - 302</td>
  <td>IT - 306</td>
  <td>IT - 302</td>
  <td>IT - 306</td>
  <td colspan="2" id="fifth">IT - 2034</td>
  <td>IT - 306</td>
</tr>
</table>
</body>
</html>

```

style.css

```

#Headings {

  text-align: center;

  margin-bottom: 20px;

```

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```
}
```

```
#Headings p {  
    font-size: 24px;  
    font-weight: bold;  
}
```

```
#Headings span {  
    display: block;  
    margin: 5px 0;  
}
```

```
table {  
    width: 80%; /* Adjust table width */  
    height: 300px; /* Adjust table height */  
    margin: 20px auto;  
}
```

```
th,td{  
    padding:15px;
```

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```
}
```

```
#periods{
```

```
    background-color:yellow;
```

```
}
```

```
td[rowspan],td[colspan]{
```

```
    text-align:center;
```

```
    vertical-align: center;
```

```
}
```

```
th{
```

```
    background-color: pink;
```

```
}
```

```
#days{
```

```
    background-color: red;
```

```
    text-align:center;
```

```
    font-weight:bold;
```

```
}
```

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```
.day{  
    text-align: center;  
    background-color:rgb(189, 184, 184);  
    font-weight:bold;  
}
```

```
#first{  
    background-color: aqua;  
}
```

```
#second{  
    background-color: darkolivegreen;  
}
```

```
#third{  
    background-color:yellow;  
}
```

```
#fourth{  
    background-color: green;
```


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```
}
```

```
#fifth{
```

```
background-color:red;
```

```
}
```

PCS – 693 (Web Development Lab)

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OUTPUT:

**Government Polytechnic College
Department of Computer Engineering
TIMETABLE EFFECTIVE FROM: 01-07-2016**

Periods	1 9:00 - 9:55	2 9:55 - 10:50	3 11:00 - 11:55	4 11:55 - 1:00	5 2:00 - 2:50	6 2:55 - 3:45	7 3:45 - 4:30
Days							
Monday	IT - 302	IT - 306	IT - 302	IT - 306	IT - 306	IT - 2034	
Tuesday	IT - 302				IT - 306	IT - 306	IT - 306
Wednesday	Elective - 1		IT - 306	IT - 302	IT - 306	IT - 306	IT - 2034
Thursday	IT - 302	IT - 306	IT - 302		IT - 2034		
Friday	IT - 302	IT - 306	IT - 302	IT - 306	IT - 2034		IT - 306

Exp No: 3 : Html Tags (Forms)

Aim: To create a simple html file to demonstrate the use of different tags.

Problem Statement: Create a html file to display form.

CODE:

index.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Entry Form</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <h1>Entry Form</h1>
  <div class="Form"></div>
    <form action="action.php" autocomplete="on">

      <div class="form-group">
        <label for="Name">Enter your name:</label>
        <input type="text" id="Name" name="Name">
      </div>

      <div class="form-group">
        <label for="Age">Enter your age:</label>
```

```
<input type="text" id="Age" name="Age">
</div>

<div class="form-group">
  <label for="Address">Enter your address:</label>
  <input type="text" id="Address" name="Address">
</div>

<div class="form-group">
  <label>Enter your sex:</label>
  <div class="radio-group">
    <label><input type="radio" name="Gender" value="Male"> Male</label>
    <label><input type="radio" name="Gender" value="Female"> Female</label>
  </div>
</div>

<div class="form-group">
  <label for="Nationality">Nationality:</label>
  <select name="Nationality" id="Nationality">
    <option value="">Select your nationality</option>
    <option value="Indian">Indian</option>
  </select>
</div>

<div class="form-group">
  <label>Languages Known:</label>
  <div class="checkbox-group">
    <label><input type="checkbox" name="C"> C++</label>
```

```
<label><input type="checkbox" name="Java"> Java</label>
<label><input type="checkbox" name="Python"> Python</label>
</div>
</div>

<div class="form-group">
  <label for="Password">Enter your password:</label>
  <input type="password" id="Password" name="Password">
</div>

<br>
<button type="submit">Submit</button>
<button type="reset">Reset</button>
</form>
</div>
</body>
</html>
```

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OUTPUT:



The screenshot shows a web form titled "Entry Form" in red text. The form is set against a light blue background. It contains the following elements:

- Enter your name:** A text input field.
- Enter your age:** A text input field.
- Enter your address:** A text area with a placeholder text "Address".
- Enter your sex:** Two radio buttons labeled "Male" and "Female".
- Nationality:** A dropdown menu with the text "Select your nationality".
- Languages Known:** Three checkboxes labeled "C++", "Java", and "Python".
- Enter your password:** A text input field.
- Buttons:** Two buttons labeled "Submit" and "Reset" at the bottom left.

Exp No: 4 : Frames & iFrames

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

Problem Statement :

1. Create an html page named as “frames.html”. Divide the page into two columns of 20%, 80% size. In 20% size call the hyperlinks for “navigationframes.html”, “floatingframes.html”, “mixedframe.html”, “noframe” and make the page to be get displayed on the other column when these links are clicked.
2. Create an html page named as “navigationframe.html”. Divide the page into two columns of 40%, 60% size. In 40% size call the hyperlink file created in above exercise , and make the page to be get displayed on the other column when the link is clicked.
3. 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 created in the above exercise as inline.
4. Create an html page named as “mixedframe.html” . Divide the page into two columns of 25% & 75% size. In 25% display an image and divide the 75% into two rows. (50% & 50%). In the first 50% display the video file created in previous exercise and other 50% the time table created in previous exercise.

CODE:

menu.html

```
<!DOCTYPE html>
```

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

```
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <style>

    a{
      text-decoration: none;
      font-size:30px;
    }
  </style>
</head>

<body>
  <ul>
    <li><a href="navigation.html" target="content">navigation.html</a></li>
    <li><a href="floatingframe.html" target="content">floatingframe</a></li>
    <li><a href="mixedframe.html" target="content">mixedframe</a></li>
  </ul>

</body>
</html>
```

frames.html

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



```
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<frameset cols="20%, 80%" frameborder="20">
  <frame src="menu.html" name="menu"></frame>
  <frame src="" name="content"></frame>
</frameset>
</html>
```

navigation.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<frameset cols="50%,50%" border="10">
  <frame src="menu.html" name="navigation">
  <frame src="" name="nav_content"></frame>
</frameset>
</html>
```

video.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <video src="Recording 2024-09-29 080821.mp4" height="400" width="400"
controls></video>
</body>
</html>
```

Mixedframe.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<frameset cols="25%,75%">
  <frame src="my_photo.jpg" name="photo_display">
  <frameset rows="50%,50%">
```

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```
<frame src="video.html" name="video_display">
<frame src="/Lab 2/Timetable/timetable.html"></frame>
</frameset>
</frameset>
</html>
```

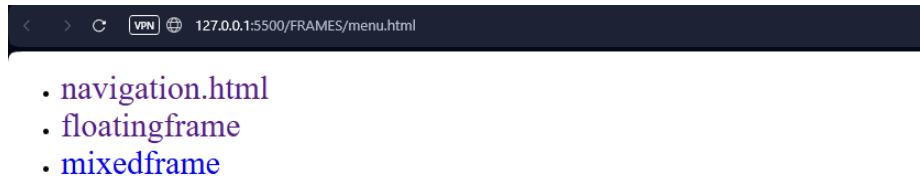
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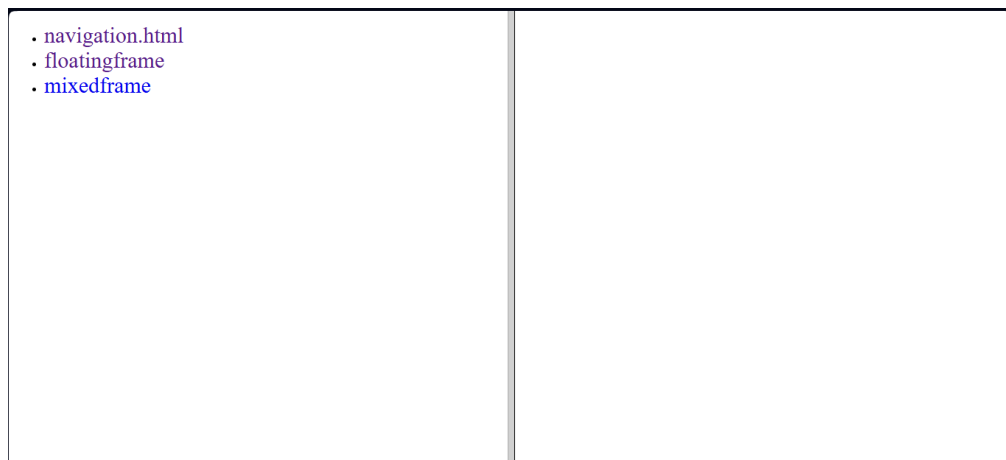
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OUTPUT:

menu.html



navigation.html



Frames.html

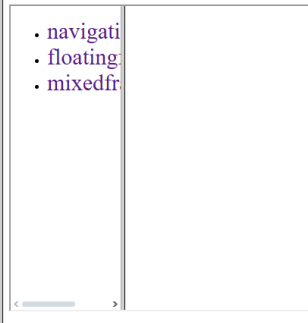
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- navigation.html
- floatingframe
- mixedframe

In HTML, "floating frames" typically refer to inline frames (iframes), which allow you to embed another HTML page within the current one, enabling a scrollable frame to be placed anywhere within the flow of the document. Here's a more detailed explanation: What they are: elements are used to embed another HTML document within the current one, much like an image. How they work: You specify the URL of the page to be embedded within the src attribute of the iframe tag. Example:

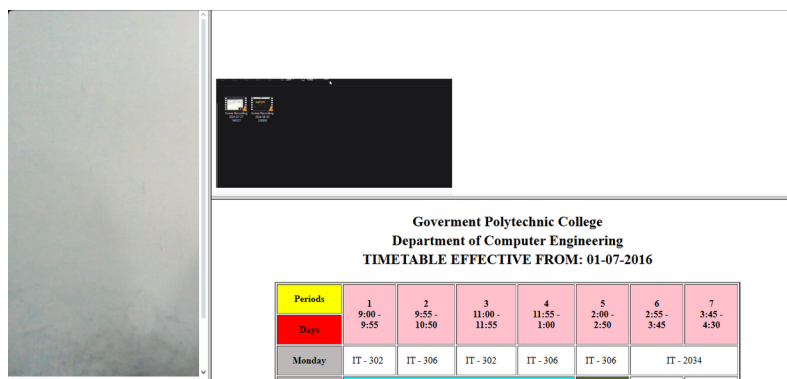


floatingframe.html

In HTML, "floating frames" typically refer to inline frames (iframes), which allow you to embed another HTML page within the current one, enabling a scrollable frame to be placed anywhere within the flow of the document. Here's a more detailed explanation: What they are: elements are used to embed another HTML document within the current one, much like an image. How they work: You specify the URL of the page to be embedded within the src attribute of the iframe tag. Example:



mixedframe.html



Exp No: 5 : Map

Aim: To create an html page with different types of image map such as circle, rect , poly & mixed map.

Problem Statement :

To display an image on the website and construct a map for all circle buttons, develop the "dialler.html" HTML page. When you click on a circle, a message with a button number, such as "you push button 1," will appear.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Image Coordinate Tracker</title>
</head>
<script>
  function collectCoordinates(event) {
    let x = event.clientX;
    let y = event.clientY;
    let coord = `Coordinates: (${x}, ${y})`;
    document.getElementById("output").innerText = coord;
  }

  function print(event, buttonValue) {
    event.preventDefault(); // Prevent default action of the <area> element
```

```

        alert(`You clicked on ${buttonValue} button`);
    }
</script>

<body>
    <h2>Hover over the image to get coordinates</h2>
    

    <map name="workmap">
        <area shape="circle" coords="200,170,30" href="#" onclick="print(event, '1')">
        <area shape="circle" coords="270,170,30" href="#" onclick="print(event, '2')">
        <area shape="circle" coords="340,170,30" href="#" onclick="print(event, '3')">

        <area shape="circle" coords="200,245,30" href="#" onclick="print(event, '4')">
        <area shape="circle" coords="270,245,30" href="#" onclick="print(event, '5')">
        <area shape="circle" coords="340,245,30" href="#" onclick="print(event, '6')">

        <area shape="circle" coords="200,315,30" href="#" onclick="print(event, '7')">
        <area shape="circle" coords="270,315,30" href="#" onclick="print(event, '8')">
        <area shape="circle" coords="340,315,30" href="#" onclick="print(event, '9')">

        <area shape="circle" coords="200,390,30" href="#" onclick="print(event, '*')">
        <area shape="circle" coords="270,390,30" href="#" onclick="print(event, '0')">
        <area shape="circle" coords="340,390,30" href="#" onclick="print(event, '#')">
    </map>

    <p id="output">Coordinates: (X, Y)</p>

```

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</body>

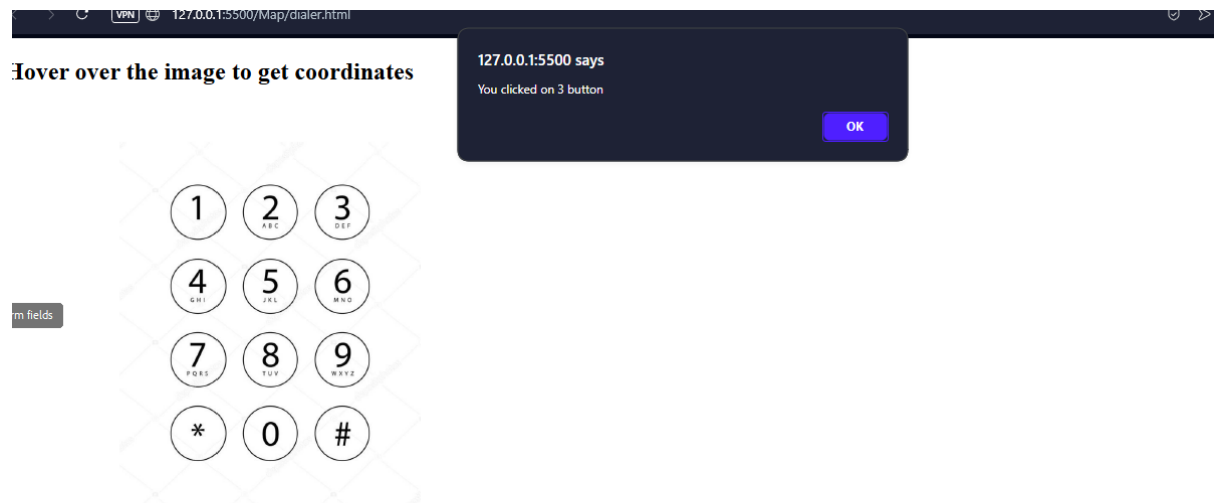
</html>

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OUTPUT:



Exp No: 6 : Inline, External And Internal Style Sheets

Aim: To create an html file by applying the different styles using inline, external & internal style sheets.

Problem Statement : Create a external style sheet named as “external_css.css” and provide some styles for h2, hr, p & a tags.

index.html

```
<!DOCTYPE html>
```

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

```
<head>
```

```
    <meta charset="UTF-8">
```

```
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
    <title>Document</title>
```

```
    <link rel="stylesheet" href="external_css.css">
```

```
</head>
```

```
<body>
```

```
    <h2>This is a h2 heading</h2>
```

```
    <hr>
```

```
    <p>This is a paragraph</p>
```

```
    <a href="https://www.google.com">This is a link</a>
```

```
</body>
```

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</html>

External_css.css

h2{

color:skyblue;

font-family: 'Times New Roman', Times, serif;

font-size: medium;

text-size-adjust: 100%;

}

hr{

color:red;

width: 50px;

}

p{

color:aqua;

text-decoration: solid;

text-decoration-style: solid;

}

a{

color:blue;

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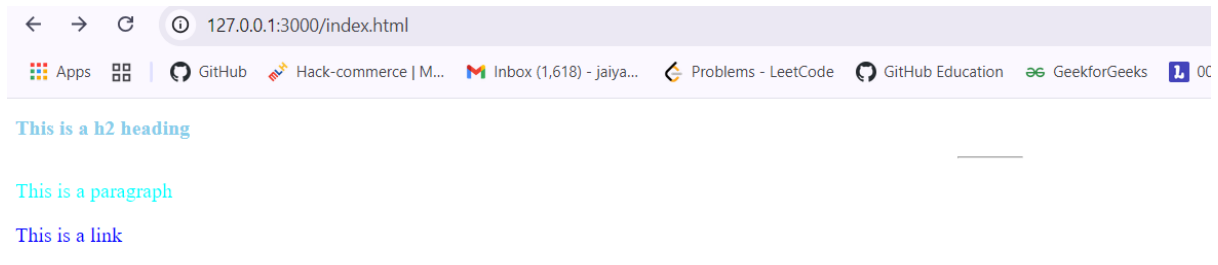
```
text-decoration: none;  
}
```

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OUTPUT:



Exp No: 7 : Inline, External And Internal Style Sheets

Aim: Implementation of external, internal and inline CSS.

Problem Statement: Create an html file named as “4Style_sheet.html”

1. Include the external style sheet with necessary tag.
2. Include the internal style sheet for body tags & also use class name, so that the style can be applied for all tags.
3. Include a tags with inline style sheet.

4style_sheet.html

```
<!DOCTYPE html>
```

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

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Document</title>
```

```
  <link rel="stylesheet" href="external_css.css">
```

```
  <style>
```

```
    body{
```

```
      background-color: cyan;
```

```

        font-family: Arial, Helvetica, sans-serif;

        color:#333333;

    }

    .c1{

        color: #ffffff;

        background-color: #007acc;

        padding: 5px;

        border-radius: 5px;

    }

</style>

</head>

<body>

    <h1 class="c1">Welcome to Style Sheet Example</h1>

    <p>This paragraph uses the internal stylesheet styling through the body tag color and
font.</p>

    <p style="color: green; font-size: 18px; font-weight: bold;">

        This paragraph uses an inline style. The text is green and bold.

    </p>

</body>

```

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```
</html>
```

```
External_css.css
```

```
/* external.css */
```

```
h1 {
```

```
    text-align: center;
```

```
    text-transform: uppercase;
```

```
    color: #ff6600;
```

```
}
```

```
p {
```

```
    font-size: 16px;
```

```
    line-height: 1.5;
```

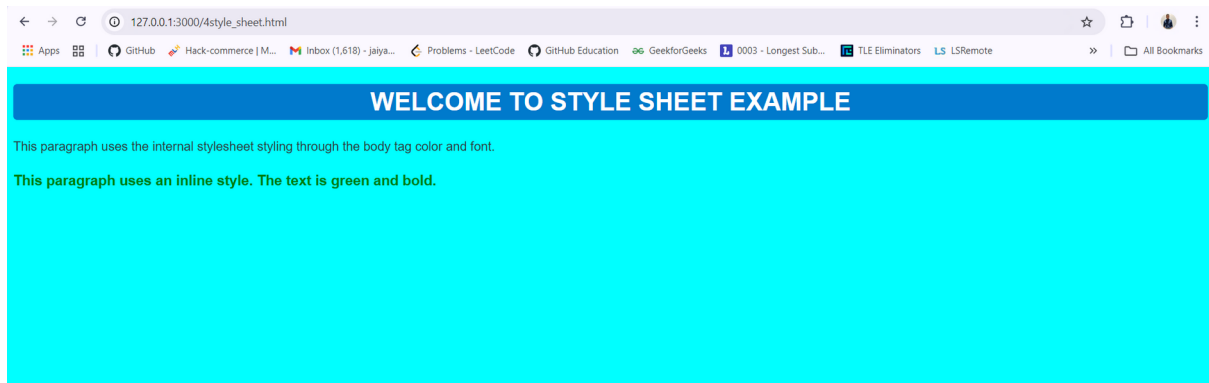
```
}
```


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OUTPUT:



Ex No: 8 : Input Output In JavaScript

Aim: To create an HTML page to explain input and output using a calculator with the use of various predefined functions and objects in Javascript.

Problem Statement: Create html files to display simple calculator using various predefined functions and objects in Javascript.

CODE:

Simple.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Calculator</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <form name="Table">
    <table id="Table">
      <tr>
        <td colspan="4">
          <input type="text" id="display" name="name_display" disabled />
        </td>
      </tr>
      <tr>
        <td colspan="2">
```

```

        <input type="button" value="C" class="clear"
            onclick="Table.name_display.value = Table.name_display.value.slice(0,
-1)" />
    </td>
    <td colspan="2">
        <input type="button" value="AC" class="clear"
            onclick="Table.name_display.value = "" />
    </td>
</tr>
<tr>
    <td><input type="button" value="(" onClick="Table.name_display.value += '(' "
/></td>
    <td><input type="button" value=")" onclick="Table.name_display.value += ')"
/></td>
    <td><input type="button" value="%" onclick="Table.name_display.value +=
'%" /></td>
    <td><input type="button" value="/" class="operator"
onclick="Table.name_display.value += '/'" /></td>
</tr>
<tr>
    <td><input type="button" value="7" onclick="Table.name_display.value += '7'"
/></td>
    <td><input type="button" value="8" onclick="Table.name_display.value += '8'"
/></td>
    <td><input type="button" value="9" onclick="Table.name_display.value += '9'"
/></td>
    <td><input type="button" value="*" class="operator"
onclick="Table.name_display.value += '*'" /></td>

```

```

        </tr>
        <tr>
            <td><input type="button" value="4" onclick="Table.name_display.value += '4'"
/></td>
            <td><input type="button" value="5" onclick="Table.name_display.value += '5'"
/></td>
            <td><input type="button" value="6" onclick="Table.name_display.value += '6'"
/></td>
            <td><input type="button" value="-" class="operator"
onclick="Table.name_display.value += '-' /></td>
        </tr>
        <tr>
            <td><input type="button" value="1" onclick="Table.name_display.value += '1'"
/></td>
            <td><input type="button" value="2" onclick="Table.name_display.value += '2'"
/></td>
            <td><input type="button" value="3" onclick="Table.name_display.value += '3'"
/></td>
            <td><input type="button" value="+" class="operator"
onclick="Table.name_display.value += '+' /></td>
        </tr>
        <tr>
            <td><input type="button" value="0" onclick="Table.name_display.value += '0'"
/></td>
            <td><input type="button" value="." onclick="Table.name_display.value += '.'"
/></td>
            <td colspan="2">
                <input type="button" value="=" class="equal"

```

```

        onclick="Table.name_display.value = (function(){try{return
eval(Table.name_display.value)} catch{return 'ERROR!'}})()" />
    </td>
</tr>
</table>
</form>
</body>
</html>

```

style.css

```

body {
    background-color: #121212;
    color: white;
    font-family: Arial, sans-serif;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
}

table {
    height: 300px;
    background-color: #1e1e1e;
    border-radius: 10px;
    box-shadow: 0px 0px 10px rgba(255, 255, 255, 0.2);
}

```

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```
#display {
    font-size: 24px;
    text-align: right;
    padding: 10px;
    background-color: #333;
    color: white;
    border: none;
    border-radius: 5px;
}

input[type="button"] {

    background-color: #252525;
    color: white;
    border: 1px solid #444;
    font-size: 18px;
    cursor: pointer;
    width:100%;
    height: 100%;
    border-radius: 5px;
    transition: background 0.2s;
}

input[type="button"]:hover {
    background-color: #333;
}
```

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```
input[type="button"]:active {  
    background-color: #444;  
}
```

```
input[value="+"], input[value="-"], input[value="*"], input[value="/"] {  
    background-color: #ff9500;  
    color: white;  
}
```

```
input[value="AC"], input[value="C"] {  
    background-color: red;  
    color: white;  
}
```

```
input[value="="] {  
    background-color: green;  
    color: white;  
}
```

OUTPUT:



Ex No: 9 Input Output In JavaScript

Aim: To create an HTML page to explain input and output using a calculator with the use of various predefined functions and objects in Javascript.

Problem Statement: Create html files to display scientific calculator using various predefined functions and objects in Javascript.

Scientific.html

```
<!DOCTYPE html>
<html>
<head>
  <title>
    Scientific Calculator using HTML, CSS and Js
  </title>
  <link rel="stylesheet" href="styles.css">
  <script src="https://cdnjs.cloudflare.com/ajax/libs/mathjs/11.5.1/math.min.js"></script>

  </script>
</head>

<body>
  <h1 style="text-align: center;">
    Scientific Calculator</h1>
  <form>
    <table>
      <tr>
        <td colspan="6">
```

```

        <input id="display" type="text">
    </td>
</tr>
<tr>
    <td><input type="button" value="1"
        onclick="display.value += '1'"></td>
    <td><input type="button" value="2"
        onclick="display.value += '2'"></td>
    <td><input type="button" value="3"
        onclick="display.value += '3'"></td>
    <td><input type="button" value="C"
        onclick="display.value = '"></td>
    <td><input type="button" value="ⓧ"
        onclick="backspace()"></td>
    <td><input type="button" value="="
        onclick="calculate()"></td>
</tr>
<tr>
    <td><input type="button" value="4"
        onclick="display.value += '4'"></td>
    <td><input type="button" value="5"
        onclick="display.value += '5'"></td>
    <td><input type="button" value="6"
        onclick="display.value += '6'"></td>
    <td><input type="button" value="-"
        onclick="display.value += '-'></td>
    <td><input type="button" value="%"
        onclick="display.value += '%"></td>

```

```

<td><input type="button" value="cos("
      onclick="display.value += 'cos("></td>
</tr>
<tr>
<td><input type="button" value="7"
      onclick="display.value += '7"></td>
<td><input type="button" value="8"
      onclick="display.value += '8"></td>
<td><input type="button" value="9"
      onclick="display.value += '9"></td>
<td><input type="button" value="x"
      onclick="display.value += '*'></td>
<td><input type="button" value="!"
      onclick="display.value += '!'></td>
<td><input type="button" value="sin("
      onclick="display.value += 'sin("></td>
</tr>
<tr>
<td><input type="button" value="."
      onclick="display.value += '.'"></td>
<td><input type="button" value="0"
      onclick="display.value += '0"></td>
<td><input type="button" value=","
      onclick="display.value += ','></td>
<td><input type="button" value="+"
      onclick="display.value += '+'></td>
<td><input type="button" value="/"
      onclick="display.value += '/'></td>

```

```

<td><input type="button" value="tan("
      onclick="display.value += 'tan("></td>
</tr>
<tr>
<td><input type="button" value="E"
      onclick="e()"></td>
<td><input type="button" value="pi"
      onclick="pi()"></td>
<td><input type="button" value="^"
      onclick="power()"></td>
<td><input type="button" value="("
      onclick="display.value += '("></td>
<td><input type="button" value=")"
      onclick="display.value += ')"></td>
<td><input type="button" value="log("
      onclick="base10Log()"></td>
</tr>
<tr>
<td><input type="button" value="sqrt("
      onclick="squareRoot()"></td>
<td><input type="button" value="ln2"
      onclick="display.value += Math.LN2"></td>
<td><input type="button" value="log10("
      onclick="base10Log()"></td>
<td><input type="button" value="l2e"
      onclick="display.value += Math.LOG2E"></td>
<td><input type="button" value="l10e"
      onclick="display.value += Math.LOG10E"></td>

```

```
<td><input type="button" value="exp("
      onclick="display.value += 'exp('"></td>
</tr>
</table>
</form>
</body>
</html>
```

Styles.css

```
table {
  border: 1px solid black;
  margin-left: auto;
  margin-right: auto;
}

input[type="button"] {
  width: 100%;
  padding: 20px 40px;
  background-color: rgb(114, 117, 114);
  color: white;
  font-size: 24px;
  font-weight: bold;
  border: none;
  border-radius: 5px;
}
```

```
input[type="text"] {  
  padding: 20px 240px;  
  font-size: 24px;  
  font-weight: bold;  
  border: none;  
  border-radius: 5px;  
  border: 2px solid black;  
  text-align: left;  
}
```

```
display {  
  text-align: left;  
}
```

Javascript file

```
function backspace() {  
  let display = document.getElementById("display");  
  display.value = display.value.slice(0, -1);  
}
```

```
function calculate() {  
  let display = document.getElementById("display");  
  let expression = display.value;  
  let result;
```

```
try {  
    // Convert trigonometric function inputs from degrees to radians  
    expression = expression.replace(/sin\(/g, 'sin(' + Math.PI / 180 + '*');  
    expression = expression.replace(/cos\(/g, 'cos(' + Math.PI / 180 + '*');  
    expression = expression.replace(/tan\(/g, 'tan(' + Math.PI / 180 + '*');  
  
    result = math.evaluate(expression);  
    display.value = result;  
} catch (error) {  
    display.value = "Error";  
}  
}  
  
function squareRoot() {  
    let display = document.getElementById("display");  
    display.value += "sqrt(";  
}  
  
function base10Log() {  
    let display = document.getElementById("display");  
    display.value += "log(";  
}  
  
function pi() {  
    let display = document.getElementById("display");  
    display.value += "pi";  
}
```

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```
function e() {  
    let display = document.getElementById("display");  
    display.value += "e";  
}
```

```
function power() {  
    let display = document.getElementById("display");  
    display.value += "^(";  
}
```


OUTPUT:

Scientific Calculator

78%2+sin(0)					
1	2	3	C		=
4	5	6	-	%	cos(
7	8	9	x	!	sin(
.	0	,	+	/	tan(
E	pi	^	()	log(
sqrt(ln2	log10(l2e	l10e	exp(

Ex No: 10 Window Object methods

Aim: To create an html page to explain the use of various predefined functions in window object in javascript.

Problem Statement: Create an html page named as “window.html” and within the script tag, use various window object functions in javascript.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <h1>Click buttons to perform operations</h1>
  <button onclick="openWin()">Open New Window</button>
  <button onclick="PromptMess()">Prompt</button>
  <button onclick="AlertOpen()">Alert</button>
  <button onclick="PrintWin()">Print the window</button>
  <button onclick="confirmMess()">Confirm</button>
  <button onclick="CloseWin()">Close the window</button>

  <script>
```

```
let newWindow;

function openWin() {
    newWindow = window.open("about:blank", "_blank", "width=400,height=300");
}

function PromptMess() {
    let userInput = window.prompt("Input a number", 0);
    console.log("User input:", userInput);
}

function AlertOpen() {
    window.alert("You clicked on the Alert button");
}

function PrintWin() {
    window.print();
}

function confirmMess() {
    let result = window.confirm("You clicked on a Confirm message button!");
    console.log("Confirm result:", result);
}

function CloseWin() {
```

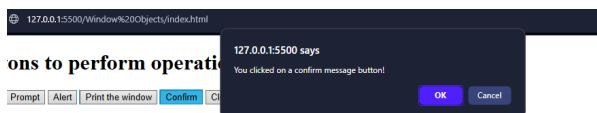
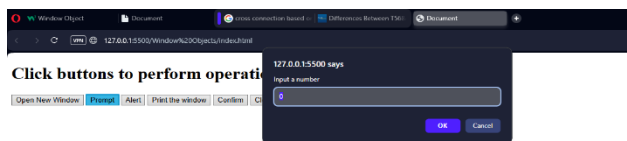
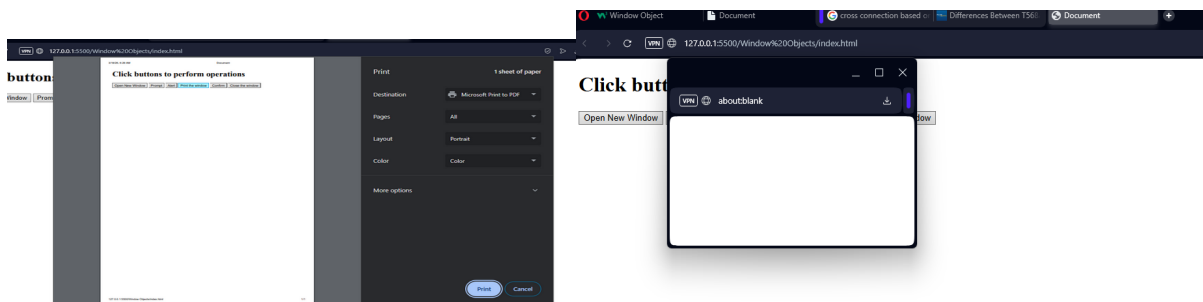
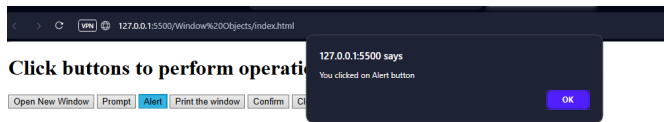
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```
        if (newWindow) {  
            newWindow.close();  
        } else {  
            alert("No window to close!");  
        }  
    }  
</script>  
</body>  
</html>
```

OUTPUT:



Ex No: 11 : Event Handling - Background Color Change

Aim: To create an html page to change the background color for every click of a button using javascript.

Problem Statement:

1. Create a html page named as changebackground_color.html
2. Define a method named as random_color() which is to be called when you click on the body. This method should generate random number, which is used to set the background color.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Random Background Color</title>
</head>
<body>

  <h1>Click anywhere to change the background color</h1>

  <script>
    document.body.addEventListener("click", function() {
      var r = Math.floor(Math.random() * 256);
      var g = Math.floor(Math.random() * 256);
      var b = Math.floor(Math.random() * 256);

      document.body.style.backgroundColor = `rgb(${r}, ${g}, ${b})`;
    });
  </script>
</body>
</html>
```

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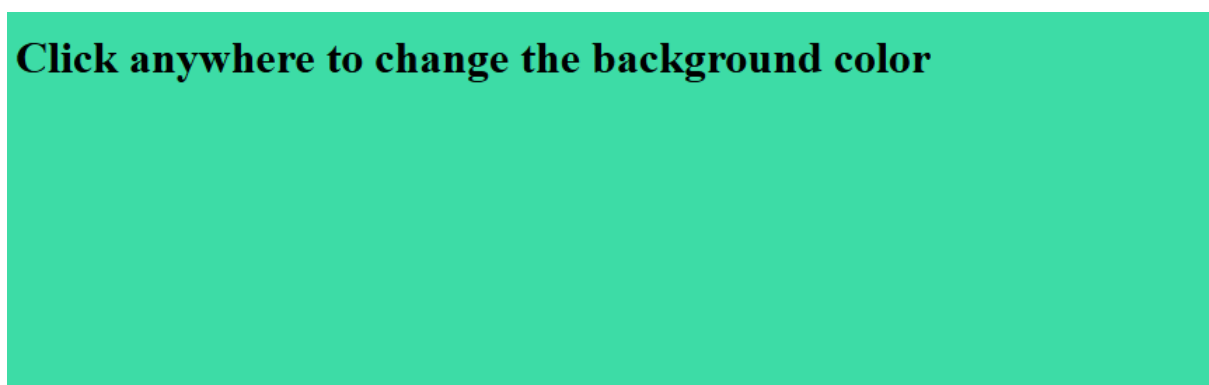
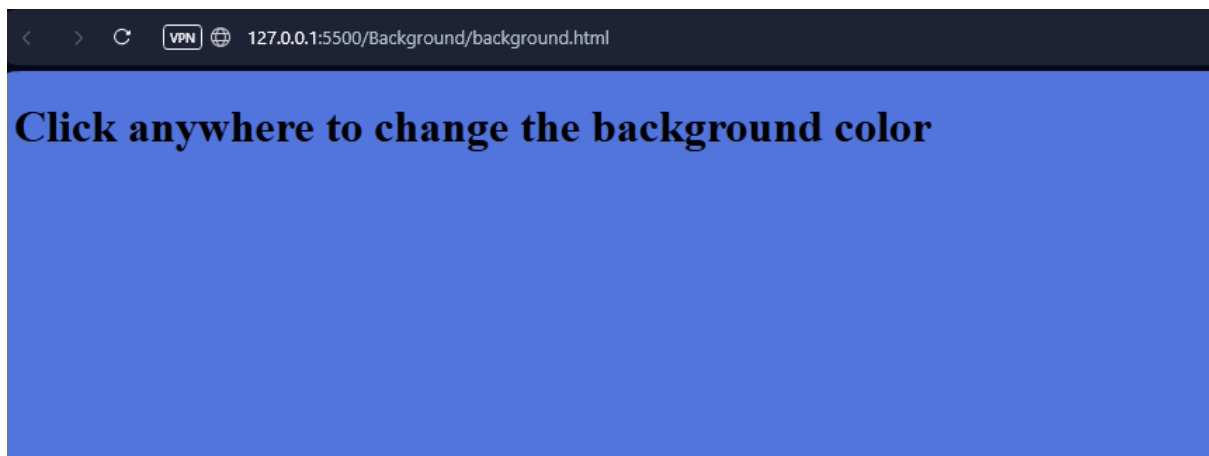
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```
});  
</script>  
  
</body>  
</html>
```

OUTPUT:

Click anywhere to change the background color



Ex No: 12 : Event Handling

Aim: To create an html page with 2 combo box populated with month & year, to display the calendar for the selected month & year from combo box using javascript.

Problem Statement: Create a html file named as “Calendar_month.html” 1. Add two combo box one to display month & another for year and one button. 2. When the button is clicked display the calendar for the selected values.

Calendar.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Dropdown Form</title>
    <link rel="stylesheet" href="styles.css" />
  </head>
  <body>
    <label for="Year">Select Year:</label>
    <select id="Year" name="year">
      <option value="2020">2020</option>
      <option value="2021">2021</option>
      <option value="2022">2022</option>
      <option value="2023">2023</option>
      <option value="2024">2024</option>
      <option value="2025">2025</option>
      <option value="2026">2026</option>
      <option value="2027">2027</option>
      <option value="2028">2028</option>
```

```
<option value="2029">2029</option>
</select>

<label for="Month">Select Month:</label>
<select id="Month" name="month">
  <option value="0">Jan</option>
  <option value="1">Feb</option>
  <option value="2">March</option>
  <option value="3">April</option>
  <option value="4">May</option>
  <option value="5">June</option>
  <option value="6">July</option>
  <option value="7">Aug</option>
  <option value="8">Sep</option>
  <option value="9">Oct</option>
  <option value="10">Nov</option>
  <option value="11">Dec</option>
</select>

<br /><br />
<button type="submit" onclick="generate()">Generate Calendar</button>

<br /><br />
<div id="Calendar"></div>
</body>

<script>
  var months = [
```

```
"Jan",
"Feb",
"March",
"April",
"May",
"June",
"July",
"Aug",
"Sep",
"Oct",
"Nov",
"Dec",
];
var last_Date = [31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31];
var days = ["Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"];

function generate() {
    var YY = parseInt(document.getElementById("Year").value);
    var MM = parseInt(document.getElementById("Month").value);

    // Leap year check
    if (MM == 1) {
        last_Date[MM] =
            (YY % 4 == 0 && YY % 100 !== 0) || YY % 400 === 0 ? 29 : 28;
    }

    var firstDay = new Date(YY, MM, 1).getDay();
    var last = last_Date[MM];
```

```
var calendarContainer = document.getElementById("Calendar");
calendarContainer.innerHTML = "";
```

```
var title = document.createElement("h3");
title.innerText = `Calendar for ${months[MM]} ${YY}`;
calendarContainer.appendChild(title);
```

```
var table = document.createElement("table");
table.style.borderCollapse = "collapse";
```

```
var thead = document.createElement("thead");
var headerRow = document.createElement("tr");
```

```
// Creating table headers (Days of the week)
```

```
days.forEach((day) => {
  var th = document.createElement("th");
  th.innerText = day;
  th.style.border = "1px solid black";
  th.style.padding = "5px";
  headerRow.appendChild(th);
});
```

```
thead.appendChild(headerRow);
table.appendChild(thead);
```

```
var tbody = document.createElement("tbody");
var row = document.createElement("tr");
```

```
// Add empty cells for days before the first day of the month
for (var i = 0; i < firstDay; i++) {
    var emptyCell = document.createElement("td");
    emptyCell.style.border = "1px solid black";
    row.appendChild(emptyCell);
}

// Fill the calendar with the days of the month
for (var i = 1; i <= last; i++) {
    var cell = document.createElement("td");
    cell.innerText = i;
    cell.style.border = "1px solid black";
    cell.style.padding = "5px";
    row.appendChild(cell);

    // When we reach Saturday, start a new row
    if ((firstDay + i) % 7 == 0 || i == last) {
        tbody.appendChild(row);
        row = document.createElement("tr"); // Corrected row creation
    }
}

table.appendChild(tbody);
calendarContainer.appendChild(table);
}
</script>
</html>
```

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style.css

```
table{  
    border:1px solid black;  
}
```

```
th,  
td {  
    border: 1px solid black;  
    text-align: center;  
    padding: 10px;  
}
```

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Sec: A

Roll number: 03

OUTPUT:

Select Year: 2020

Select Month: Jan

Generate Calendar

Select Year: 2020

Select Month: Jan

Generate Calendar

Calendar for Jan 2020

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Ex No: 13 : Date Handling

Aim: To understand the date in java Script.

Problem Statement: a) Write a JavaScript program to display the current day and time in the following format.

Sample Output :

Today is : Friday. Current time is : 4 PM : 50 : 22

b) Write a JavaScript program to get the current date. *Expected Output :* mm-dd-yyyy, mm/dd/yyyy or dd-mm-yyyy, dd/mm/yyyy

c) Write a JavaScript function to get difference between two dates in days.

Test Data : console.log(date_diff_indays('04/02/2014', '11/04/2014'));

console.log(date_diff_indays('12/02/2014', '11/04/2014')); *Output :* 216 -28

d) **16.** Write a JavaScript function to count the number of days passed since beginning of the year. Go to the editor

Test Data : console.log(days_passed(new Date(2015, 0, 15))); 15

console.log(days_passed(new Date(2015, 11, 14))); 348

e) Write a JavaScript program to find 1st January is being a Sunday between year1 and year2.

f) Write a JavaScript program to calculate days left until next Christmas.

g) Write a JavaScript program to calculate days remains in your birthday.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Date Functions</title>
</head>
<body>
  <!-- 1. Write the date in format Day: Hour am/pm: minutes : second -->
  <button onclick="part1()">Format as Day: Hour am/pm: minutes : second</button>
  <p id="Part1"></p>

  <button onclick="part2()">Current Date</button>
  <p id="Part2"></p>

  <button onclick="part3()">Difference Between Dates</button>
  <input type="date" id="i1">
  <input type="date" id="i2">
  <p id="Part3"></p>

  <button onclick="part4()">No. of Days Passed This Year</button>
  <p id="Part4"></p>

  <input type="number" id="i3" placeholder="Start Year">
```

```
<input type="number" id="i4" placeholder="End Year">
<button onclick="part5()">No. of Sundays on 1st Jan Between Two Years</button>
<p id="Part5"></p>
```

```
<button onclick="part6()">Days Left Until Next Christmas</button>
<p id="Part6"></p>
```

```
<input type="date" id="birthday">
<button onclick="part7()">Days Left Until Your Next Birthday</button>
<p id="Part7"></p>
```

```
<script>
function part1() {
    const now = new Date();
    const days = ["Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday",
"Saturday"];
    const day = days[now.getDay()];

    let hours = now.getHours();
    const ampm = hours >= 12 ? "PM" : "AM";
    hours = hours % 12 || 12; // Convert to 12-hour format

    const minutes = now.getMinutes().toString().padStart(2, '0');
    const seconds = now.getSeconds().toString().padStart(2, '0');

    const formattedDate = `${day}: ${hours} ${ampm}: ${minutes} : ${seconds}`;
```

```
document.getElementById("Part1").innerText = formattedDate;
}

function part2() {
    const now = new Date();
    const date = now.getDate();
    const month = now.getMonth() + 1; // Months are zero-based
    const year = now.getFullYear();

    const formattedDate = `${date}-${month}-${year}`;
    document.getElementById("Part2").innerText = formattedDate;
}

function part3() {
    const d1 = document.getElementById("i1").value;
    const d2 = document.getElementById("i2").value;

    if (!d1 || !d2) {
        document.getElementById("Part3").innerText = "Please enter both dates.";
        return;
    }

    const date1 = new Date(d1);
    const date2 = new Date(d2);
```

```
const diffMs = Math.abs(date1 - date2);
const diffDays = diffMs / (1000 * 60 * 60 * 24); // Convert ms to days

document.getElementById("Part3").innerText = `Difference: ${diffDays} days`;
}

function part4() {
  const now = new Date();
  const startOfYear = new Date(now.getFullYear(), 0, 1);
  const diffMs = now - startOfYear;
  const daysPassed = Math.floor(diffMs / (1000 * 60 * 60 * 24));

  document.getElementById("Part4").innerText = `Days passed this year: ${
    daysPassed}`;
}

function part5() {
  const startYear = parseInt(document.getElementById("i3").value);
  const endYear = parseInt(document.getElementById("i4").value);

  if (isNaN(startYear) || isNaN(endYear) || startYear > endYear) {
    document.getElementById("Part5").innerText = "Enter valid years.";
    return;
  }

  let count = 0;
```

```
for (let year = startYear; year <= endYear; year++) {  
    const firstJan = new Date(year, 0, 1);  
    if (firstJan.getDay() === 0) { // Sunday = 0 in JavaScript  
        count++;  
    }  
}  
  
document.getElementById("Part5").innerText = `Number of Sundays on 1st Jan: ${count}`;  
  
function part6() {  
    const now = new Date();  
    const currentYear = now.getFullYear();  
    let christmas = new Date(currentYear, 11, 25); // December 25  
  
    if (now > christmas) {  
        christmas = new Date(currentYear + 1, 11, 25); // Next year's Christmas  
    }  
  
    const diffMs = christmas - now;  
    const daysLeft = Math.ceil(diffMs / (1000 * 60 * 60 * 24));  
  
    document.getElementById("Part6").innerText = `Days left until next Christmas: ${daysLeft}`;  
}
```

```
function part7() {  
    const birthdayInput = document.getElementById("birthday").value;  
  
    if (!birthdayInput) {  
        document.getElementById("Part7").innerText = "Please enter your birthday.";  
        return;  
    }  
  
    const now = new Date();  
    const currentYear = now.getFullYear();  
    const birthday = new Date(birthdayInput);  
    let nextBirthday = new Date(currentYear, birthday.getMonth(), birthday.getDate());  
  
    if (now > nextBirthday) {  
        nextBirthday = new Date(currentYear + 1, birthday.getMonth(),  
birthday.getDate());  
    }  
  
    const diffMs = nextBirthday - now;  
    const daysLeft = Math.ceil(diffMs / (1000 * 60 * 60 * 24));  
  
    document.getElementById("Part7").innerText = `Days left until your next birthday: ${  
{daysLeft}}`;  
    }  
</script>
```

Name: Aditi Chauhan

Sec: A

Roll number: 03

</body>

</html>

Name: Aditi Chauhan

Sec: A

Roll number: 03

OUTPUT:

Format as Day: Hour am/pm: minutes : second

Tuesday: 8 AM: 42 : 29

Current Date

18-3-2025

Difference Between Dates12-03-202518-03-2025

Difference: 6 days

No. of Days Passed This Year

Days passed this year: 76

20002020No. of Sundays on 1st Jan Between Two Years

Number of Sundays on 1st Jan: 3

Days Left Until Next Christmas

Days left until next Christmas: 282

12-06-2025Days Left Until Your Next Birthday

Days left until your next birthday: 86

Exp No. – 14(Window object method setInterval, clearInterval)

Aim: To create an html page with three button START PAUSE and RESET for controlling stopwatch

Problem Statement:

Create a html file named as “stopwatch.html”

1. Add number div display HH MM SS.
2. When the button is clicked START start watch.
3. When the button is clicked PAUSE stop watch.
4. When the button is clicked RESET reset div values 00:00:00.

CODE:

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Stopwatch</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      text-align: center;
      margin: 50px;
      background-color: #f4f4f4;
    }
  </style>
</head>
<body>
```

```
#display {
    font-size: 50px;
    font-weight: bold;
    color: teal;
    margin-bottom: 20px;
}
button {
    padding: 10px 20px;
    margin: 5px;
    font-size: 18px;
    border: none;
    cursor: pointer;
    border-radius: 5px;
}
#start { background-color: green; color: white; }
#pause { background-color: orange; color: white; }
#reset { background-color: red; color: white; }
#saveLap { background-color: gray; color: white; }
#laps {
    margin-top: 20px;
    text-align: left;
    display: inline-block;
}
.lap-item {
    background: white;
    padding: 5px;
    margin: 5px;
    border-radius: 5px;
```

```
        border-left: 5px solid teal;
    }
</style>
</head>
<body>

    <h1>Stopwatch</h1>
    <div id="display">00:00:00</div>

    <button id="start" onclick="startTimer()">START</button>
    <button id="pause" onclick="pauseTimer()">PAUSE</button>
    <button id="reset" onclick="resetTimer()">RESET</button>
    <button id="saveLap" onclick="saveLap()">SAVE LAP</button>

    <div id="laps"></div>

    <script>
        let hours = 0, minutes = 0, seconds = 0;
        let timer;
        let running = false;

        function updateDisplay() {
            let hh = String(hours).padStart(2, '0');
            let mm = String(minutes).padStart(2, '0');
            let ss = String(seconds).padStart(2, '0');
            document.getElementById("display").innerText = `${hh}:${mm}:${ss}`;
        }
    </script>
</body>
</html>
```

```
function startTimer() {  
  if (!running) {  
    running = true;  
    timer = setInterval(() => {  
      seconds++;  
      if (seconds === 60) {  
        seconds = 0;  
        minutes++;  
      }  
      if (minutes === 60) {  
        minutes = 0;  
        hours++;  
      }  
      updateDisplay();  
    }, 1000);  
  }  
}
```

```
function pauseTimer() {  
  clearInterval(timer);  
  running = false;  
}
```

```
function resetTimer() {  
  clearInterval(timer);  
  running = false;  
  hours = 0;  
  minutes = 0;  
  seconds = 0;
```

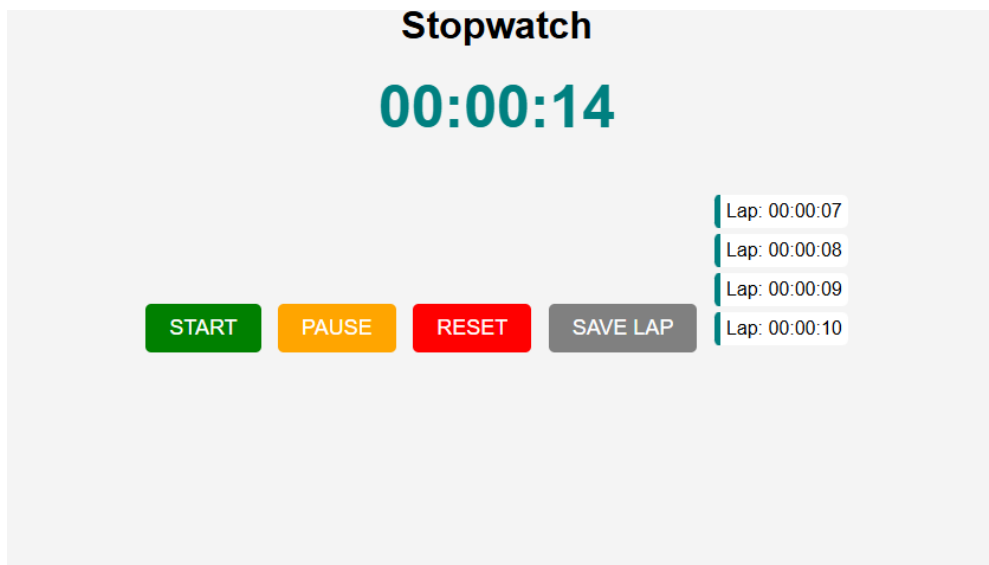
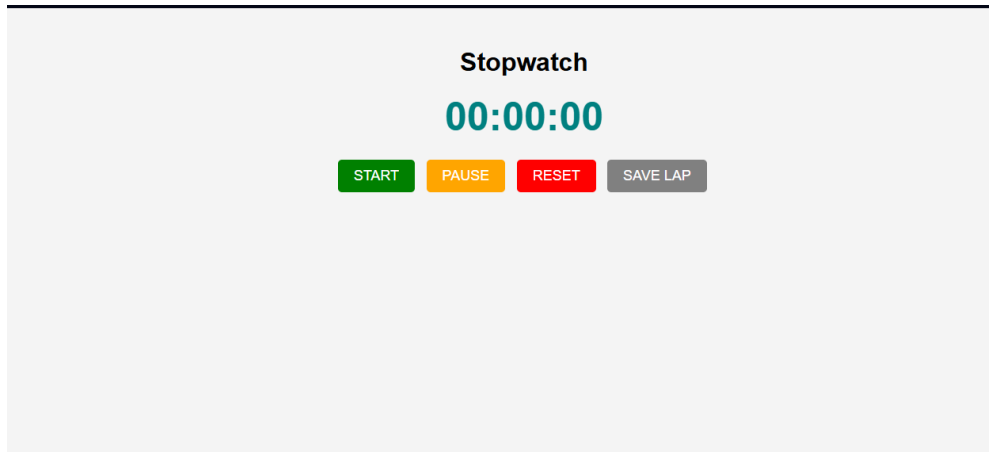
```
        updateDisplay();
        document.getElementById("laps").innerHTML = ""; // Clear laps
    }

    function saveLap() {
        if (running) {
            let lapTime = document.getElementById("display").innerText;
            let lapDiv = document.createElement("div");
            lapDiv.className = "lap-item";
            lapDiv.innerText = `Lap: ${lapTime}`;
            document.getElementById("laps").appendChild(lapDiv);
        }
    }

    updateDisplay();
</script>

</body>
</html>
```

OUTPUT:



Practical 15 – AJAX

Aim: To fetch the data at the client side asynchronously with the help of AJAX.

Problem Statement: Write A Javascript Program to fetch the data at the client side asynchronously with the help of AJAX.

```
1) { "Pascal" : [
    { "Name" : "Pascal Made Simple", "price" : 700 },
    { "Name" : "Guide to Pascal", "price" : 400 }],
  "Scala" : [
    { "Name" : "Scala for the Impatient", "price" : 1000 },
    { "Name" : "Scala in Depth", "price" : 1300 } ]
}
```

```
2. {
  "name": "John",
  "age": 30,
  "cars": [
    { "name": "Ford", "models": [ "Fiesta", "Focus", "Mustang" ] },
    { "name": "BMW", "models": [ "320", "X3", "X5" ] },
    { "name": "Fiat", "models": [ "500", "Panda" ] }
  ]
}
```

}

3. {

"name": "John",

"birth": "1986-09-11",

"age": "function(){ return 34;}",

"pets": [

{ "animal": "dog", "name": "Fido" },

{ "animal": "cat", "name": "Felix" },

{ "animal": "hamster", "name": "Lightning" }

]

}

CODE:

```
<!DOCTYPE html>
```

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

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>AJAX JSON Fetch</title>
```

```
<script src="script.js"></script>
```

```
<style>
```

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

```
table { width: 60%; margin: 20px auto; border-collapse: collapse; }
```

```
th, td { padding: 10px; border: 1px solid black; }
```



```

        th { background-color: lightgray; }
    </style>
</head>
<body>

    <h2>Fetch JSON Data with AJAX</h2>
    <button onclick="fetchBooks()">Load Books</button>
    <button onclick="fetchCars()">Load Cars</button>
    <button onclick="fetchPets()">Load Pets</button>

    <div id="output"></div>

</body>
</html>

```

```

script.js
function fetchBooks() {
    fetchJSON("books.json", displayBooks);
}

function fetchCars() {
    fetchJSON("cars.json", displayCars);
}

function fetchPets() {
    fetchJSON("pets.json", displayPets);
}

```

```
function fetchJSON(jsonFile, callback) {  
    let xhr = new XMLHttpRequest();  
    xhr.open("GET", jsonFile, true);  
  
    xhr.onload = function () {  
        if (xhr.status === 200) {  
            let data = JSON.parse(xhr.responseText);  
            callback(data);  
        } else {  
            document.getElementById("output").innerHTML = "<p style='color:red;'>Error  
loading data</p>";  
        }  
    };  
  
    xhr.send();  
}  
  
function displayBooks(data) {  
    let output = `<h3>Book List</h3><table>  
        <tr><th>Category</th><th>Book Name</th><th>Price</th></tr>`;  
    for (let category in data) {  
        data[category].forEach(book => {  
            output += `<tr>  
                <td>${category}</td>  
                <td>${book.Name}</td>
```

```

        <td>${book.price}</td>
    </tr>`;
    });
}
output += "</table>";
document.getElementById("output").innerHTML = output;
}

function displayCars(data) {
    let output = `<h3>Cars Owned by ${data.name} (Age: ${data.age})</h3>
        <table>
            <tr><th>Car Brand</th><th>Models</th></tr>`;
    data.cars.forEach(car => {
        output += `<tr>
            <td>${car.name}</td>
            <td>${car.models.join(", ")}</td>
        </tr>`;
    });
    output += "</table>";
    document.getElementById("output").innerHTML = output;
}

function displayPets(data) {
    let output = `<h3>Pet List of ${data.name}</h3>
        <p><strong>Birth:</strong> ${data.birth}</p>

```

```
<table>
  <tr><th>Animal</th><th>Pet Name</th></tr>`;
data.pets.forEach(pet => {
  output += `<tr>
    <td>${pet.animal}</td>
    <td>${pet.name}</td>
  </tr>`;
});
output += "</table>";
document.getElementById("output").innerHTML = output;
}
```

Name: Aditi Chauhan

Sec: A

Roll number: 03

OUTPUT:

Fetch JSON Data with AJAX

Book List

Category	Book Name	Price
Pascal	Pascal Made Simple	700
Pascal	Guide to Pascal	400
Scala	Scala for the Impatient	1000
Scala	Scala in Depth	1300

Fetch JSON Data with AJAX

Pet List of John

Birth: 1986-09-11

Animal	Pet Name
dog	Fido
cat	Felix
hamster	Lightning

Fetch JSON Data with AJAX

Cars Owned by John (Age: 30)

Car Brand	Models
Ford	Fiesta, Focus, Mustang
BMW	320, X3, X5
Fiat	500, Panda

Practical 16

- a. Install and configure PHP, web server, MYSQL (XAMPP)
- b. Write a program to print “Welcome to PHP”
- c. Create a php program to find odd or even number from given number.
- d. Write a php program to find maximum of three numbers.

Install XAMPP:

1. **Run the installer and follow the steps.**
2. **Ensure Apache and MySQL components are selected.**
3. **Start Services:**
4. **Open XAMPP Control Panel.**
5. **Start Apache and MySQL.**
6. **Run PHP Files:**
7. **Place your .php files in the htdocs folder:**
8. C:\xampp\htdocs\

```
<?php
```

```
    echo "Welcome to PHP";
```

```
    ?>
```

```
<?php
```

```
    $number = 7; // You can change this value or take user input
```

```
    if ($number % 2 == 0) {
```

```
    echo "$number is Even";  
  
    } else {  
  
    echo "$number is Odd";  
  
    }  
  
?>
```

<?php

```
$number = $_GET['num'];  
  
if ($number % 2 == 0) {  
  
    echo "$number is Even";  
  
    } else {  
  
    echo "$number is Odd";  
  
    }  
  
?>
```

<?php

```
$a = 10;  
  
$b = 25;  
  
$c = 15;
```


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Sec: A

Roll number: 03

```
$max = $a;

if ($b > $max) {

    $max = $b;

}

if ($c > $max) {

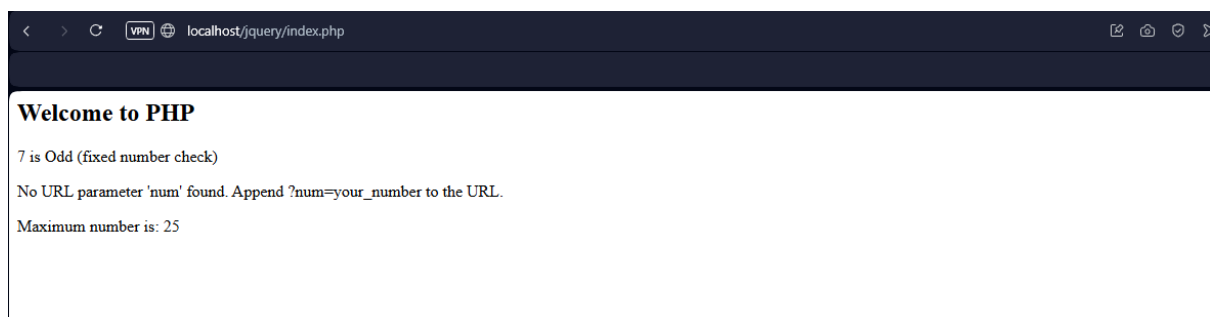
    $max = $c;

}

echo "Maximum number is: $max";

?>
```

OUTPUT



Practical 17 – Swap two numbers in PHP

Problem Statement : Write a program to enter TWO numbers and print the Swap Numbers using PHP Example.

Solution:

```
<?php

// Declare and initialize two numbers

$num1 = 10;

$num2 = 20;


echo "Numbers before swapping:<br>";

echo "Num1 = $num1 Num2 = $num2<br><br>";


// Swap the numbers using a temporary variable

$temp = $num1;

$num1 = $num2;

$num2 = $temp;
```

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```
echo "Numbers after swapping:<br>";  
  
echo "Num1 = $num1 Num2 = $num2";  
  
?>
```

Practical No. - 18

- Write a PHP Program to demonstrate the variable function: `gettype()` and `settype()`
- Write a PHP Program to demonstrate the variable function: `isset()`
- Write a PHP Program to demonstrate the variable function: `unset()`

```
<?php

echo "<h3>gettype() and settype() Demo</h3>";

$var = 42;

echo "Original value: $var<br>";

echo "Original type: " . gettype($var) . "<br>";

// Change type to string

settype($var, "string");

echo "After settype to string:<br>";

echo "Value: $var<br>";

echo "New type: " . gettype($var) . "<br>";

?>
```

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Sec: A

Roll number: 03

```
<?php  
  
echo "<h3>isset() Demo</h3>";  
  
$name = "Graphic Era";  
  
if (isset($name)) {  
    echo "Variable 'name' is set and has value: $name<br>";  
} else {  
    echo "Variable 'name' is not set<br>";  
}  
  
$emptyVar = null;  
  
if (isset($emptyVar)) {  
    echo "Variable 'emptyVar' is set<br>";  
} else {  
    echo "Variable 'emptyVar' is not set (or is null)<br>";  
}  
  
?>
```

Name: Aditi Chauhan

Sec: A

Roll number: 03

```
<?php  
  
echo "<h3>unset() Demo</h3>";  
  
$city = "Dehradun";  
  
echo "Before unset, city = $city<br>";  
  
unset($city); // destroy the variable  
  
if (isset($city)) {  
    echo "City is still set.<br>";  
} else {  
    echo "City has been unset.<br>";  
}  
  
?>
```

Practical No. - 19

Aim: Prepare Electricity bill from user input based on a given tariff.

Problem Statement Write a PHP program to input previous reading and present reading and prepare an electricity bill using the following conditions.

| Units Consumed | Rate |
|---------------------|-------------|
| <100 | Rs. 3/ Unit |
| Between 100 and 200 | Rs. 4/ Unit |
| Between 200 and 300 | Rs. 5/ Unit |
| >300 | Rs. 6/ Unit |

Solution:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>Electricity Bill Calculator</title>
```

```
</head>
```

```
<body>
```

```
<h2>Electricity Bill Calculator</h2>
```

```
<form method="post">
```

```
  <label for="prev">Previous Reading:</label>
```

```
  <input type="number" name="prev" required><br><br>
```

```
  <label for="present">Present Reading:</label>
```

```
  <input type="number" name="present" required><br><br>
```

```
  <input type="submit" name="submit" value="Calculate Bill">
```

```
</form>
```

```
<?php
```

```
if (isset($_POST['submit'])) {
```

```
    $prev = $_POST['prev'];
```

```
    $present = $_POST['present'];
```

```
    if ($present >= $prev) {
```

```
        $units = $present - $prev;
```

```
        $rate = 0;
```



```
if ($units < 100) {  
    $rate = 3;  
} elseif ($units < 200) {  
    $rate = 4;  
} elseif ($units < 300) {  
    $rate = 5;  
} else {  
    $rate = 6;  
}  
  
$bill = $units * $rate;  
  
echo "<h3>Electricity Bill</h3>";  
echo "Previous Reading: $prev <br>";  
echo "Present Reading: $present <br>";  
echo "Units Consumed: $units <br>";  
echo "Rate per Unit: ₹$rate <br>";  
echo "<strong>Total Bill: ₹$bill</strong>";  
  
} else {
```

Name: Aditi Chauhan

Sec: A

Roll number: 03

```
    echo "<p style='color:red;'>Error: Present reading must be greater than or equal to  
previous reading.</p>";
```

```
    }
```

```
}
```

```
?>
```

```
</body>
```

```
</html>
```

Practical 20 - PHP Form Handling

Solution:

```
<!DOCTYPE html>

<html>

<head>

<title>Electricity Bill</title>

<style>

  body {

    font-family: Arial, sans-serif;

    background-color: #f7a348;

    text-align: center;

    padding: 30px;

  }

  h2 {

    background-color: #f4a840;

    color: white;

    padding: 10px;

  }

  table {

    margin: auto;
```

```
width: 60%;

background-color: #fff8dc;

border-collapse: collapse;
}

td {

padding: 10px;

text-align: left;

border-bottom: 1px solid #eee;
}

input[type="text"], input[type="number"] {

width: 100%;

padding: 8px;
}

input[type="submit"] {

padding: 10px 25px;

background-color: #ddd;

border: 1px solid #aaa;

margin-top: 20px;
}

</style>
```

```
</head>
```

```
<body>
```

```
<h2>ELECTRICITY BILL</h2>
```

```
<?php
```

```
if ($_SERVER["REQUEST_METHOD"] == "POST") {
```

```
    $consumer = $_POST['consumer'];
```

```
    $name = $_POST['name'];
```

```
    $prev = $_POST['prev'];
```

```
    $present = $_POST['present'];
```

```
    $units = $present - $prev;
```

```
    $rate = 0;
```

```
    if ($units <= 100) {
```

```
        $rate = 3;
```

```
    } elseif ($units <= 200) {
```

```
        $rate = 4;
```

```
    } elseif ($units <= 300) {
```

Name: Aditi Chauhan

Sec: A

Roll number: 03

```

    $rate = 5;

} else {

    $rate = 6;

}

$amount = $units * $rate;

echo "<table>

    <tr><td><strong>Consumer Number</strong></td><td>$consumer</td></tr>

    <tr><td><strong>Customer Name</strong></td><td>$name</td></tr>

    <tr><td><strong>Previous Reading</strong></td><td>$prev</td></tr>

    <tr><td><strong>Present Reading</strong></td><td>$present</td></tr>

    <tr><td><strong>Unit Consumed</strong></td><td>$units</td></tr>

    <tr><td><strong>Amount</strong></td><td>$amount</td></tr>

</table>";

} else {

?>

<form method="post" action="">

    <table>

```

```
<tr>

    <td>Enter the consumer number</td>

    <td><input type="text" name="consumer" required></td>

</tr>

<tr>

    <td>Enter the customer name</td>

    <td><input type="text" name="name" required></td>

</tr>

<tr>

    <td>Enter the previous reading</td>

    <td><input type="number" name="prev" required></td>

</tr>

<tr>

    <td>Enter the present reading</td>

    <td><input type="number" name="present" required></td>

</tr>

</table>

<input type="submit" value="SUBMIT">

</form>
```

Name: Aditi Chauhan

Sec: A

Roll number: 03

<?php } ?>

</body>

</html>

Input:

ELECTRICITY BILL	
Enter the consumer number	<input type="text" value="C111"/>
Enter the customer name	<input type="text" value="Deepak"/>
Enter the previous reading	<input type="text" value="11101"/>
Enter the present reading	<input type="text" value="11300"/>
<input type="button" value="SUBMIT"/>	

OUTPUT:

ELECTRICITY BILL	
Consumer Number	C111
Customer Name	Deepak
Previous Reading	11101
Present Reading	11300
Unit consumed	199
Amount	796

Practical - 21

Aim: Write PHP program to implement a cookie and session based counter.

- Create Cookies variable using PHP
- Create a session variable using PHP
- Display the session variable using PHP
- Display the cookies variable using PHP

Solution:

```
<?php

// Start the session

session_start();


// COOKIE COUNTER

if (isset($_COOKIE['cookie_counter'])) {

    $cookieCounter = $_COOKIE['cookie_counter'] + 1;

} else {

    $cookieCounter = 1;

}

setcookie("cookie_counter", $cookieCounter, time() + (86400 * 30)); // 30 days


// SESSION COUNTER

if (isset($_SESSION['session_counter'])) {

    $_SESSION['session_counter'] += 1;

} else {

    $_SESSION['session_counter'] = 1;

}

?>
```

```
<!DOCTYPE html>

<html>

<head>

<title>Cookie and Session Counter</title>

<style>

  body {

    font-family: Arial;

    background-color: #f2f2f2;

    padding: 50px;

    text-align: center;

  }

  .box {

    background-color: white;

    padding: 25px;

    display: inline-block;

    border: 1px solid #ccc;

    border-radius: 8px;

  }

  h2 {

    color: #333;
```

Name: Aditi Chauhan

Sec: A

Roll number: 03

```
    }  
  
</style>  
  
</head>  
  
<body>  
  
<div class="box">  
  
    <h2>Cookie and Session Counter</h2>  
  
    <p><strong>Cookie Counter:</strong>  
        <?php echo $cookieCounter; ?>  
    </p>  
  
    <p><strong>Session Counter:</strong>  
        <?php echo $_SESSION['session_counter']; ?>  
    </p>  
</div>  
  
</body>  
  
</html>
```

Exp No: 22

Problem Statement: File Uploading Using PHP (To Understand File Uploading in PHP)

Aim: To upload the user input file and using constraints file type, file size. UI

Solution:

<!DOCTYPE html>

```
<html>

<head>

  <title>File Upload</title>

  <style>

    body {

      font-family: Arial;

      margin: 50px;

    }

    .box {

      padding: 20px;

      background-color: #f7f7f7;

      border: 1px solid #ddd;

      width: 350px;

      margin: auto;

      border-radius: 10px;

    }

    .success {

      color: green;

      margin-top: 10px;

    }

  </style>

</head>

<body>

  <div class="box">

    <div class="success">File uploaded successfully</div>

    <div class="form">

      <input type="text" value="File Name" />

      <input type="button" value="Upload" />

    </div>

  </div>

</body>

</html>
```

Name: Aditi Chauhan

Sec: A

Roll number: 03

```
.error {  
    color: red;  
    margin-top: 10px;  
}  
  
</style>  
  
</head>  
  
<body>  
  
<div class="box">  
    <h3>Select File to Upload:</h3>  
    <form action="upload.php" method="post" enctype="multipart/form-data">  
        <input type="file" name="fileToUpload" required><br><br>  
        <input type="submit" value="Upload" name="submit">  
    </form>  
</div>  
  
</body>  
  
</html>
```

Select File to Upload:

No file selected.

Invalid File Extension!

Name: Aditi Chauhan

Sec: A

Roll number: 03

Exp No: 23

PHP withSQL Develop a simple application to -

- a. Enter data into database
- b. Retrieve and present data from database
- c. Develop a simple application to Update, Delete table data from database.

Solution:

```
CREATE DATABASE registration_db;
```

```
USE registration_db;
```

```
CREATE TABLE users (
```

```
    id INT AUTO_INCREMENT PRIMARY KEY,
```

```
    first_name VARCHAR(50),
```

```
    middle_name VARCHAR(50),
```

```
    last_name VARCHAR(50),
```

```
    password VARCHAR(255),
```

```
    email VARCHAR(100),
```

```
    contact_no VARCHAR(15),
```

```
    gender VARCHAR(10),
```

```
    address TEXT,
```

```

pincode VARCHAR(10),

city VARCHAR(50),

country VARCHAR(50),

skills TEXT,

file_name VARCHAR(255)

);

```

Registration Form (register.html)

```

<!DOCTYPE html>

<html>

<head><title>Sign Up</title></head>

<body style="background-color:#f7e98e; font-family:sans-serif;">

    <h2 align="center" style="color:purple;">Sign Up</h2>

    <form action="submit.php" method="post" enctype="multipart/form-data"
align="center">

        First Name: <input type="text" name="first_name"><br><br>

        Middle Name: <input type="text" name="middle_name"><br><br>

        Last Name: <input type="text" name="last_name"><br><br>

        Password: <input type="password" name="password"><br><br>

        Email: <input type="email" name="email"><br><br>

        Contact No: <input type="text" name="contact"><br><br>

```

Name: Aditi Chauhan

Sec: A

Roll number: 03

Gender:

☐Male

☐Female

Address:
<textarea name="address" rows="3" cols="30"></textarea>

Pincode: <input type="text" name="pincode">

City:

<select name="city">

<option>Delhi</option>

<option>Mumbai</option>

<option>Bangalore</option>

</select>

Country:

<select name="country">

<option>India</option>

<option>Ireland</option>

<option>USA</option>

</select>

Skills:

<input type="checkbox" name="skills[]" value="PHP">PHP

<input type="checkbox" name="skills[]" value="Java">Java

```

<input type="checkbox" name="skills[]" value="Ajax">Ajax
<input type="checkbox" name="skills[]" value="Jquery">Jquery
<input type="checkbox" name="skills[]" value=".NET">.NET<br><br>
Upload Resume: <input type="file" name="resume"><br><br>
<input type="checkbox" required>I have read terms and conditions<br><br>
<input type="submit" value="Submit">

</form>

</body>

</html>

```

Handle Form Submission (submit.php)

```

<?php

$conn = new mysqli("localhost", "root", "", "registration_db");

if ($conn->connect_error) die("Connection failed: " . $conn->connect_error);

$first = $_POST['first_name'];
$middle = $_POST['middle_name'];
$last = $_POST['last_name'];
$pass = password_hash($_POST['password'], PASSWORD_DEFAULT);
$email = $_POST['email'];

```

Name: Aditi Chauhan

Sec: A

Roll number: 03

```
$contact = $_POST['contact'];

$gender = $_POST['gender'];

$address = $_POST['address'];

$pincode = $_POST['pincode'];

$city = $_POST['city'];

$country = $_POST['country'];

$skills = implode(",", $_POST['skills']);


$file_name = $_FILES['resume']['name'];

$tmp_name = $_FILES['resume']['tmp_name'];

move_uploaded_file($tmp_name, "uploads/" . $file_name);


$sql = "INSERT INTO users (first_name, middle_name, last_name, password, email,
contact_no, gender, address, pincode, city, country, skills, file_name)

VALUES ('$first', '$middle', '$last', '$pass', '$email', '$contact', '$gender', '$address',
'$pincode', '$city', '$country', '$skills', '$file_name')";


if ($conn->query($sql) === TRUE) {

    echo "Registration successful!";

} else {

    echo "Error: " . $conn->error;
```

Name: Aditi Chauhan

Sec: A

Roll number: 03

```
}
```

```
$conn->close();
```

```
?>
```

Registration Form x

localhost:88/kiantesh_php/

Sign Up

First Name:

Middle Name:

Last Name:

Password:

Confirm Password:

Email:

Contact No:

Gender: ☒ Male ☐ Female

Address:

Pincode:

City:

Country:

Skills: ☐ PHP ☐ Java ☐ Ajax ☐ JQuery ☐ .NET

No file chosen

☐ I have read terms and conditions

Display Data (view.php)

```
<?php

$conn = new mysqli("localhost", "root", "", "registration_db");

$result = $conn->query("SELECT * FROM users");

echo "<h2>User Records</h2><table border='1'>";

echo "<tr><th>ID</th><th>Name</th><th>Email</th><th>City</th><th>Skills</th><th>Actions</th></tr>";

while($row = $result->fetch_assoc()) {

    echo "<tr>

        <td>{$row['id']}</td>

        <td>{$row['first_name']} {$row['last_name']}</td>

        <td>{$row['email']}</td>

        <td>{$row['city']}</td>

        <td>{$row['skills']}</td>

        <td><a href='edit.php?id={$row['id']}'>Edit</a> |

            <a href='delete.php?id={$row['id']}'>Delete</a></td>

    </tr>";

}

echo "</table>";

$conn->close();
```

?>

Edit & Update Data (edit.php)

```
$conn = new mysqli("localhost", "root", "", "registration_db");
```

```
$id = $_GET['id'];
```

```
$result = $conn->query("SELECT * FROM users WHERE id=$id");
```

```
$row = $result->fetch_assoc();
```

```
if ($_SERVER["REQUEST_METHOD"] == "POST") {
```

```
    $city = $_POST['city'];
```

```
    $skills = implode(",", $_POST['skills']);
```

```
    $conn->query("UPDATE users SET city='$city', skills='$skills' WHERE id=$id");
```

```
    echo "Updated successfully. <a href='view.php'>View All</a>";
```

```
    exit;
```

```
}
```

?>

```
<form method="post">
```

```
    City: <input type="text" name="city" value="<?= $row['city'] ?>"><br><br>
```

```
    Skills:
```



```

        <input type="checkbox" name="skills[]" value="PHP" <?= strpos($row['skills'], "PHP") !
        == false ? "checked" : "" ?>>PHP

        <input type="checkbox" name="skills[]" value="Java" <?= strpos($row['skills'], "Java") !
        == false ? "checked" : "" ?>>Java<br><br>

        <input type="submit" value="Update">

    </form>

```

Delete (delete.php)

```

$conn = new mysqli("localhost", "root", "", "registration_db");

$id = $_GET['id'];

$conn->query("DELETE FROM users WHERE id=$id");

header("Location: view.php");

```

Exp No: 24

Problem Statement: Create a PHP page for login page with sql connection.

Solution:

Connection.php

```
<?php
```

```
$user ='root';
```

```
$pass ='';
```

```
$db='geu' ;
```

```
//create connection
```

```
$con = mysqli_connect('localhost', $user, $pass,$db) or  
die("Connection failed: " . mysqli_connect_error());
```

```
echo "Connected successfully";
```

```
?>
```

LOGIN.PHP

```
<html>
```

```
<head>
```

```
<title>Untitled</title>
```

```

<style type="text/css">
th {
    text-align: right;

}
h3{
    text-align:center;
}
</style>

</head>

<body bgcolor="pink">
    <h3>login form using session or cookies</h3>
    <form action="validate.php" method="POST">
        <tr><th>Name</th><td><input type="text" id="name"name="name" value=""</td></tr>
        <tr><th>password</th><td><input type="password" id="pass"name="password"
value=""</td></tr>
        <br/>
        <br/>
        <tr><td colspan="2"align="center"><input type="checkbox" name="remember"
value="1">Remember me</td></tr>
        <br/>
        <br/>
        <tr><td colspan="2"align="right"><input type="submit" name="login"
value="login"></td></tr>

```

Name: Aditi Chauhan

Sec: A

Roll number: 03

```
</form>
```

```
</table>
```

```
</body>
```

```
</html>
```

Logout.php

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Hello!</title>
```

```
</head>
```

```
<body bgcolor="pink">
```

```
<?php
```

```
    session_start();
```

```
    session_destroy();
```

```
    if(isset($_COOKIES['name'])and isset($_COOKIES['pass']))
```

```
    {
```

```

$email= $_COOKIES['name'];
$pass= $_COOKIES['pass'];
setcookie('email',$name,time()-60);
setcookie('pass',$password,time()-60);
}

echo "you successfully logout. <br/>click here to login again<br/><a href=' login.php '>try
again</a>";
?>

```

```

<form>

```

```

</form>

```

```

</body>

```

```

</html>

```

VALIDATE.PHP

```

<?php
require 'connection.php';
if(isset($_POST['login']))
{
    $name=$_POST['name'];

    $password=$_POST['password'];

    $remember=$_POST['remember'];

```

```

    echo $name;

    $sql = "SELECT name, password FROM login where name='$name' and
    password='$password'";

    $result = mysqli_query($con,$sql);

    if(mysqli_num_rows($result)>0)
    {
        if(isset($_POST['remember']))
        {
            setcookie('name',$name,time()+60*60*7);
            setcookie('pass',$password,time()+60*60*7);
            echo "cookies are set";
            session_start();
            $_SESSION['name']=$name;
            $_SESSION['pass']=$password;
            header("location:welcome.php") ;

        }

    else
    {
        echo"email or password is invalid <br>click here to login again<a href='login.php'>TRY
        AGAIN</a>";
    }

```

```
}  
  
}  
else  
{  
  
    header("location:welcome.php");  
  
}  
  
?>
```

LOGIN PAGE	
User Name	vaidoo
Password
<div>SUBMIT</div> <div>CLEAR</div>	

**Invalid
USERNAME
or
PASSWORD
!!!!**

Exp No: 25

Problem Statement:

- a. Write a php program to Read from existing file.
- b. Write a php program to Write a file.

Solution:

```
<?php
// File path
$filename = "sample.txt";

// Check if the file exists
if (file_exists($filename)) {
    // Open the file in read mode
    $file = fopen($filename, "r") or die("Unable to open file!");

    // Get the file size
    $filesize = filesize($filename);

    // Read the content
    $content = fread($file, $filesize);

    // Display the content
    echo "<h3>File Content:</h3>";
    echo nl2br($content); // nl2br() to keep newlines in HTML

    // Close the file
    fclose($file);
```



```
} else {  
    echo "The file '$filename' does not exist."  
}  
?>  
  
<?php  
// File name  
$filename = "output.txt";  
  
// The content to write  
$content = "Hello! This content is written using fwrite() in PHP.\nWelcome to file  
handling in PHP."  
  
// Open the file in write mode ('w' will overwrite existing file)  
$file = fopen($filename, "w") or die("Unable to open file!");  
  
// Write the content  
fwrite($file, $content);  
  
// Close the file  
fclose($file);  
  
echo "Data successfully written to '$filename'.  
?>
```

Exp No: 26

Problem Statement: Write a jQuery code snippet to change the text of a <div> element with the ID "myDiv" to "Hello, world!" when a button with the ID "changeTextBtn" is clicked.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>

    <script>
      $(document).ready(function () {
        $("#changeTextBtn").click(function () {
          $("#myDiv").text("Hello World!");
        });
      });
    </script>
  </head>
  <body>
    <div id="myDiv">This is the original text.</div>
    <button id="changeTextBtn">Change text</button>
  </body>
</html>
```

Name: Aditi Chauhan

Sec: A

Roll number: 03

This is the original text.

Change text

Hello World!

Change text

Exp No: 27

Problem Statement:

Create a jQuery script that toggles the visibility of a <div> element with the class "toggleDiv" when a button with the ID "toggleBtn" is clicked.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
    <title>Document</title>

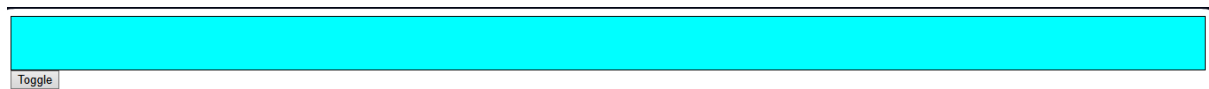
    <script>
      $(document).ready(function () {
        $("#toggleBtn").click(function () {
          $(".toggleDiv").toggle(1000, function () {
            alert("Hey!");
          });
        });
      });
    </script>
  </head>
  <body>
    <div
      class="toggleDiv"
      style="
        min-height: 59px;
        background-color: aqua;
        border: 1px solid black;
```

Name: Aditi Chauhan

Sec: A

Roll number: 03

```
"></div>  
<button id="toggleBtn">Toggle</button>  
</body>  
</html>
```



Toggle

