

Practical Assignment – I

1. Create a HTML page with hyperlink. When user click on hyper link the page will open

itwd_assignment1/q1_hyperlink.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Hyperlink</title>
  </head>
  <body>
    <h1>Practical Assignment 1 </h1>
    <h4>Question 1 </h4>
    <!--Create a HTML page with hyperlink. When user click on hyper link the page will open-->
    <p>Exploring the serene landscapes of Iceland has been a dream come true. From the
mesmerizing Northern Lights to the majestic waterfalls, every moment felt surreal. One highlight
of the trip was hiking the Vatnajökull Glacier, an experience that truly connected me with nature.
Iceland's natural beauty is unlike anywhere else in the world.
If you're planning to visit Iceland, be prepared for unpredictable weather. Pack wisely and make
sure to bring a sturdy pair of hiking boots
    </p>
    <p>Click on the link below to go to next page</p>
    <a href="a1_2.html">Go to page 2</a>
  </body>
</html>
```

itwd_assignment1/q1_2_hyperlink.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Hyperlink</title>
  </head>
  <body>
    <h1>Practical Assignment 1 </h1>
    <h4>Question 1 </h4>
    <h5>Page 2</h5>
    <p>The geography of Ireland comprises relatively low-lying mountains surrounding a
central plain, with several navigable rivers extending inland. Its lush vegetation is a product of its
mild but changeable climate which is free of extremes in temperature. Much of Ireland was
woodland until the end of the Middle Ages. Today, woodland makes up about 10% of the island,
compared with a European average of over 33%,[12] with most of it being non-native conifer
plantations.[13][14] The Irish climate is influenced by the Atlantic Ocean and thus very
```

moderate,[15] and winters are milder than expected for such a northerly area, although summers are cooler than those in continental Europe. Rainfall and cloud cover are abundant.

</p>

</body>

</html>

2. Make following table in HTML

Time Table And Fare List

Time Table And Fare List Name of Train	Place	Destination	Time Arrival	Departure	Fare
Rajdhani Express	Bombay	Delhi	07.30	08.45	Rs 989.00
Madras Mail	Bombay	Madras	09.00	10.15	Rs 450.00
Konya Express	Bombay	Banglore	11.30	12.25	Rs 645.00
Konkan Express	Bombay	Manglore	13.30	14.45	Rs 756.00
Deccan Express	Bombay	Pune	16.00	17.30	Rs 345.00

itwd_assignment1/q2_table.html

```

<!DOCTYPE html>
<html>
  <head>
    <title>Table Q2</title>
    <link rel="stylesheet" type="text/css" href="q8.css">
  </head>
  <body>
    <h1>Practical Assignment 1 </h1>
    <h4>Question 2 </h4>
    <!--Time table and fare list-->
    <table border="1">
      <tr>
        <th rowspan="2">Time Table And Fare List Name Of Train</th>
        <th rowspan="2">Place</th>
        <th rowspan="2">Destination</th>
        <th colspan="2">Time</th>
        <th rowspan="2">Fare</th>
      </tr>
      <tr>
        <th>Arrival</th>
        <th>Fare</th>
      </tr>
    </table>
  </body>
</html>

```

```
</tr>
<tr>
  <td>Rajdhani Express</td>
  <td>Bombay</td>
  <td>Delhi</td>
  <td>7.30</td>
  <td>8.45</td>
  <td>Rs 989.00</td>
</tr>
<tr>
  <td>Madras Mail</td>
  <td>Bombay</td>
  <td>Madras</td>
  <td>9.00</td>
  <td>10.15</td>
  <td>Rs 450.00</td>
</tr>
<tr>
  <td>Konya Express</td>
  <td>Bombay</td>
  <td>Banglore</td>
  <td>11.30</td>
  <td>12.25</td>
  <td>Rs 645.00</td>
</tr>
<tr>
  <td>Konkan Express</td>
  <td>Bombay</td>
  <td>Manglore</td>
  <td>13.30</td>
  <td>14.45</td>
  <td>Rs 756.00</td>
</tr>
<tr>
  <td>Deccan Express</td>
  <td>Bombay</td>
  <td>Pune</td>
  <td>16.00</td>
  <td>17.30</td>
  <td>Rs 345.00</td>
</tr>
</table>
```

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

3. Create a 3*3 table. Each cell have an image.

In the same table make any two image as hyperlink.

itwd_assignment1/q3.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Q3</title>
  </head>
  <body>
    <h1>Practical Assignment 1 </h1>
    <h4>Question 3 </h4>
    <table border=1 cellpadding=40>
      <tr>
        <th bgcolor="pink"><a href="q1_2_hyperlink.html"></a>This image is hyperlink</th>
        <th></th>
        <th></th>
      </tr>
      <tr>
        <th></th>
        <th></th>
        <th></th>
      </tr>
      <tr>
        <th></th>
        <th><a href="q1_2_hyperlink.html.html"></a>This image is also hyperlink</th>
        <th></th>
      </tr>
    </table>
  </body>
</html>
```

4. Make a HTML form similar to <https://login.yahoo.com/account/create?specId=yidReg>**itwd_assignment1/q4._yahoo.html**

```

<!DOCTYPE html>
<html>
  <head>
    <title>Yahoo Register page</title>
  </head>
  <body style="background-color: rgb(240, 240, 240);">
    <header>
      <span style="align-items: left;">Yahoo!</span>
      <span style="align-items:right;">Help</span>
      <span align="right">Terms</span>
      <span align="right">Privacy</span>
    </header>
    <br><br>
    <table border="1" align="center" style="background-color: white;">
      <tr>
        <td>
          <div align=" center">
            <h2 style="color:#720e9e; font-family: Georgia, 'Times New Roman', Times, serif;">yahoo!</h2>
            <h2><b>Create a Yahoo account</b></h2>
            <p>Access all that Yahoo has to offer with a single account.</p>
            <small>All fields are required.</small>
          </div>
          <div align=" center">
            <form>
              <input type="text" name="fname" placeholder="Full name">
              <br><br>
              <input type="email" name="fname"placeholder="New Yahoo email">
              <br><br>
              <input type="password" name="fname"placeholder="Password">
              <br><br>
              <p>Date of birth</p>
              <input type="month" name="month" placeholder="month">
              <input type="number" name="day" placeholder="Day">
              <input type="number" name="Year" placeholder="Year">
              <br>
              <p>By continuing, you agree to our Terms and Privacy Policy</p>
              <button style="color:white; background-color: #720e9e; border-radius:12px;">Next</button>
            </div>
          </div>
        </td>
      </tr>
    </table>
  </body>
</html>

```

```
<p> or create an account with</p>
<button></button>
<button height="20px">My email</button>
<br>
<p>Already have an account? <a href="#">Sign in</a></p>
</form>
</div>
</td>
</tr>
</table>
</body>
</html>
```

5. Make your own resume in HTML

itwd_assignment1/q5_resume.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      Resume
    </title>
  </head>
  <body>
    <div>
      <div align="center"> <h1>Priya Sharma</h1>
        <p>Address: Ahmedabad,India</p>
        <p>Phone:1234567890 Email:priya123@gmail.com</p></div>

      <h5><u>Objective</u></h5>
      <hr>
      <p>Enthusiastic and detail-oriented Computer Science graduate with a strong
foundation in programming, algorithms, and web development. Eager to apply theoretical
knowledge to real-world challenges in software development. Skilled in Java, Python, and
front-end technologies with a passion for continuous learning and growth in the tech industry.

      </p>
      <br>
      <hr>

      <p>200x-2000x [Bachelor of Computer Applications (BCA)]</p>
      <p>[Details of education completed]</p>
      <br>
      <hr>
      <h5><u>Work Experience</u></h5>
      <p>Fresher</p>
      <hr>
      <p>200x-2000x [Organization name][City]</p>
      <p>[Details of position]</p>
      <br>
      <p>200x-2000x [Organization name][City]</p>
      <p>[Details of position]</p>
      <hr>
      <h5><u>Skills</u></h5>
      <hr>
      <p><ul>
        <li>Programming Languages: Java, Python, JavaScript</li>
```

```
<li>Web Development: HTML, CSS, JavaScript, Bootstrap

</li>
<li> Databases: MySQL, MongoDB</li>
<li>Tools: Git, VS Code</li>
</ul>
<p>
</p>
<hr>
<h5><u>References</u></h5>
<hr>
<p>[Reference details]</p>

</div>
</body>
</html>
```

6. Create a HTML page with 3 frames. The page has top row with 100% width and 2 columns with 30% and 70% width. There is a hyperlink for each frame and a page should be open in a frame and second hyperlink should be in new tab/page

itwd_assignment1/q6_frame.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Q6 Frames</title>
  </head>

  <frameset rows = "20%, 80%">
    <frame name = "topFrame" src = "top.html" />
    <frameset cols="30%, 70%">
      <frame name = "leftFrame" src = "left.html" />
      <frame name = "rightFrame" src = "right.html" />
    </frameset>
  </frameset>
  <noframes>
    <body>
      <h4>Browsers doesn't support frames</h4>
    </body>
  </noframes>
</html>
```

itwd_assignment1/left.html

```
<!DOCTYPE html>
<html>
  <body>
    <a href="left1.html" target="leftFrame">Open in left frame</a>
    <a href="https://www.google.co.in/" target="_blank">Open in a new Tab</a>

  </body>
</html>
```

itwd_assignment1/left1.html

```
<!DOCTYPE html>
<html>
  <body>
    <h1>This is left frame</h1>
```

```
<h2>it covers 30%</h2>
```

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

itwd_assignment1/right.html

```
<!DOCTYPE html>  
<html>  
  <body>  
    <a href="right1.html" target="rightFrame">Open in left frame</a>  
    <a href="https://www.google.co.in/" target="_blank">Open in a new Tab</a>  
  
  </body>  
</html>
```

itwd_assignment1/right1.html

```
<!DOCTYPE html>  
<html>  
  <body>  
    <h1>This is right frame</h1>  
    <h2>it covers 70%</h2>  
  
  </body>  
</html>
```

itwd_assignment1/top.html

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>Top frame</title>  
  </head>  
  <a href="top1.html" target="topFrame">Open in Top frame</a>  
  <a href="https://www.google.co.in/" target="_blank">Open in a new Tab</a>  
</html>
```

7. Use following tag**I. article II. section III. nav IV. menu V. div****VI. span VII. video VIII. audio IX. object X. embed XI. Iframe****itwd_assignment1/q7.html**

```
<!DOCTYPE html>
<html>
  <head>
    <title>Q7</title>
  </head>
  <body>
    <h1>Practical Assignment 1 </h1>
    <h4>Question 7 </h4>
    <!--nav-->
    <h2>Navigation </h2>
    <nav>
      <a href="https://en.wikipedia.org/wiki/HTML">HTML</a><br>
      <a href="https://en.wikipedia.org/wiki/css">CSS</a><br>
      <a href="https://en.wikipedia.org/wiki/javascript">JavaScript</a>

    </nav>
    <!--article-->
    <article>
      <h4>HTML</h4>
      <p>Hypertext Markup Language (HTML) is the standard markup language for documents designed to be displayed in a web browser. It defines the content and structure of web content. It is often assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.</p>
    </article>
    <article>
      <h4>CSS</h4>
      <p>Cascading Style Sheets (CSS) is a style sheet language used for specifying the presentation and styling of a document written in a markup language such as HTML or XML (including XML dialects such as SVG, MathML or XHTML).[1] CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.[2]</p>
    </article>
    <!--Section-->
    <section>
      <h3>JavaScript</h3>
```

<p>JavaScript is a scripting language used to develop web pages. Developed in Netscape, JS allows developers to create a dynamic and interactive web page to interact with visitors and execute complex actions. It also enables users to load content into a document without reloading the entire page.</p>

</section>

<!--menu-->

<h2>Programming Languages</h2>

<menu>

Python

C

C++

Java

</menu>

<!--div-->

<div>This is div tag </div>

<div>It is blocklevel element</div>

<!--span-->

This is span tag

It is inline element

<!--video-->

<div>

<h2>Video</h2>

<video width="320" height="240" controls>

<source src="Wildlife.wmv" type="video/wmv">

</video>

</div>

<!--audio-->

<div>

<h2>Audio</h2>

<audio controls>

<source src="horse.mp3" type="audio/mpeg">

</audio>

</div>

<div>

<h2>Object</h2>

<object data="a2.html" width="400" height="300"></object>

</div>

```
<div>
  <h2>Embed</h2>
  <embed type="image/jpg" src="img6.jpg" width="300" height="200">
</div>

<div>
  <h2>iframe</h2>
  <iframe src="a2.html" title="html document"></iframe>

</div>
</body>
</html>
```

8. Create an external style sheet with background color is silver for Q2**itwd_assignment1/q8.css**

```
body{
    background-color: silver;
}
```

9. Apply internal style sheet for Q3.**itwd_assignment1/q3.css**

```
<!DOCTYPE html>
<html>
    <head>
        <title>Q3</title>
    </head>
    <body>
        <h1>Practical Assignment 1 </h1>
        <h4>Question 3 </h4>
        <table border=1 cellpadding=40>
            <tr>
                <th bgcolor="pink"><a href="q1_2_hyperlink.html"></a>This image is hyperlink</th>
                <th></th>
                <th></th>
            </tr>
            <tr>
                <th></th>
                <th></th>
                <th></th>
            </tr>
            <tr>
                <th></th>
                <th><a href="q1_2_hyperlink.html.html"></a>This image is also hyperlink</th>
                <th></th>
            </tr>
        </table>
    </body>
</html>
```


Practical Assignment -2

CSS and Javascript Practical Assignment Apply following effect using Css:

Css – Color

Css- background

Css-Font

Css-Text

Css-Image

Css-Link

Css-Border

Css-Margin

Css-List

Css-padding

Css-Cursor

1) Write a HTML code with inline Css

itwd_assignment2/q1.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Inline CSS</title>
</head>
<!--background-->
<body style=" background-color: lightblue;">
  <!--color-->
  <h1 style="color:brown;">Inline CSS</h1>
  <!--font-->
```

<p style="font-family: 'Times New Roman', Times, serif; color:mediumslateblue;">A facial recognition system[1] is a technology potentially capable of matching a human face from a digital image or a video frame against a database of faces. Such a system is typically employed to authenticate users through ID verification services, and works by pinpointing and measuring facial features from a given image.</p>

<!--image-->

<div style="background-image: url('flower.jfif'); background-size: cover; height: 300px; width: 300px;">

Flower field

</div>

<!--link-->

Click Me

<!-- border, margin, and padding-->

<div style="border: 2px solid black; margin: 20px; padding: 10px;">

This is a div with a border, margin, and padding.

</div>

<!--list and cursor-->

<ul style="padding-left: 20px; cursor: pointer;">

Apple

Banana

Orange

</body>

</html>

2) Write a HTML code with Internal Css itwd_assignment2/q2.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Internal CSS</title>
  <style>
    body {
      background-color: #f0f0f0; /* Background color */
      font-family: Arial, sans-serif; /* Font style */
      color: #333; /* Text color */
      margin: 0;
    }

    h1 {
      color: #4CAF50; /* Heading color */
    }

    p {
      margin: 15px; /* Margin */
      padding: 10px; /* Padding */
      border: 1px solid #ccc; /* Border */
    }

    a {
      color: #007BFF; /* Link color */
      cursor: pointer; /* cursor */
    }

    ul {
```

```
        padding-left: 20px; /* Padding */
    }

    li {
        margin: 5px 0; /* Margin */
    }
</style>
</head>
<body>

<h1>Welcome!</h1>

<p>This is a made using internal css</p>

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

<ul>
    <li>Apple</li>
    <li>Mango</li>
    <li>Kiwi</li>
</ul>

</body>
</html>
```

3) Write a HTML code with External Css itwd_assignment2/q3.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>External CSS </title>
  <link rel="stylesheet" href="q3.css">
</head>
<body>

<h1>Welcome!</h1>

<p>This is made using external css.</p>

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

<ul>
  <li>Paris</li>
  <li>New York</li>
  <li>Miami</li>
</ul>

</body>
</html>
```

itwd_assignment2/q3.css

```
body {
  background-color: #a71a1a;
  font-family: Arial, sans-serif;
  color: #333;
  margin: 0;
```

```
}
```

```
h1 {  
  color: #4CAF50; /
```

```
p {  
  margin: 15px;  
  padding: 10px;  
  border: 1px solid #ccc;
```

```
a {  
  color: #007BFF;  
  
  cursor: pointer;  
}
```

```
ul {  
  padding-left: 20px;  
}
```

```
li {  
  margin: 5px 0;  
}
```

JavaScript:

4) Print hello word using internal JavaScript

itwd_assignment2/q4.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Internal javascript</title>
</head>
<body>
  <script>
    document.write("Hello World!");
  </script>
</body>
</html>
```

5) Apply all the arithmetic Operation using JavaScript

itwd_assignment2/q5.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Arithmetic Operations</title>
  <h1>Arithmetic Operations</h1>
  <script src="q5.js"></script>
</head>
<body>
</body>
</html>
```

itwd_assignment2/q5.js

```
const num1 = 10;
const num2 = 5;

let sum = num1 + num2;
document.write("Addition: " + sum + "<br>");

let diff = num1 - num2;
document.write("Subtraction: " + diff + "<br>");

let product = num1 * num2;
document.write("Multiplication: " + product + "<br>");

let result = num1 / num2;
document.write("Division: " + result + "<br>");
```


6) Accept number from the user and find number is even or odd, display result using alert box**itwd_assignment2/q6.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Even odd</title>
</head>
<body>
  <h1>
    Even or odd number
  </h1>
  <script src="q6.js"></script>
</body>
</html>
```

itwd_assignment2/q6.js

```
let num=prompt("Enter a number to check whether it is even or odd");
if(num%2==0){
  alert("It is an even number");
}
else if(num%2!=0){
  alert("It is an odd number");
}
```

7) Using while loop print all even number between 1 -25.**itwd_assignment2/q7.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Question 7</title>
</head>
<body>
  <script src="q7.js"></script>
</body>
</html>
```

itwd_assignment2/q7.js

```
let i=1
while(i<=25){
  if(i%2==0){
    document.write("<br>" + i);
  }

  i++;
}
```

8) Using for loop print multiplication table.**itwd_assignment2/q8.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Question 8</title>
</head>
<body>
  <script src="q8.js"></script>
</body>
</html>
```

itwd_assignment2/q8.js

```
let num=prompt("Enter a number");
for(let i=1;i<=10;i++){
  document.write("<br>" + num + '*' + i + '=' + num*i );
}
```

9) Using do while loop find number divisible by 3 between 1-50**itwd_assignment2/q9.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>question 9</title>
</head>
<body>
  <script src="q9.js"></script>
</body>
</html>
```

itwd_assignment2/q9.js

```
let i=1;
do{
  if(i%3==0){
    document.write("<br>" + i);
  }
  i++;
}while(i<51)
```

10) Implement all the dialog Box: Apply all dialogue box 1. Alert 2. Prompt 3. Confirm

itwd_assignment2/q10.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>question 10</title>
</head>
<body>
  <script src="q10.js"></script>
</body>
</html>
```

itwd_assignment2/q10.js

```
let name=prompt("Enter your name");
alert("Your name is"+ name);
confirm("Are you sure you want to proceed?");
```

Practical Assignment -3

Practical Assignment (write a JavaScript of the following.)

1) Simple calculator with 3 Textboxes.

itwd_assignment3/q1.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>

</head>
<body>

  <h1>Simple Calculator</h1>

  <input type="text" id="num1" placeholder="Enter first number">
  <input type="text" id="num2" placeholder="Enter second number">
  <input type="text" id="result" placeholder="Result" readonly>

  <br>

  <button onclick="calculate('+')">Add</button>
  <button onclick="calculate('-')">Subtract</button>
  <button onclick="calculate('*')">Multiply</button>
  <button onclick="calculate('/')">Divide</button>

  <script>
    function calculate(operation) {
      const num1 = parseFloat(document.getElementById('num1').value);
      const num2 = parseFloat(document.getElementById('num2').value);
      let result;
```

```
    if (isNaN(num1) || isNaN(num2)) {
        alert("Please enter valid numbers.");
        return;
    }

    switch (operation) {
        case '+':
            result = num1 + num2;
            break;
        case '-':
            result = num1 - num2;
            break;
        case '*':
            result = num1 * num2;
            break;
        case '/':
            if (num2 === 0) {
                alert("Cannot divide by zero.");
                return;
            }
            result = num1 / num2;
            break;
        default:
            return;
    }

    document.getElementById('result').value = result;
}
</script>
</body>
</html>
```

2) Leap Year

itwd_assignment3/q2.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Leap Year </title>
  <script src="q2.js" defer></script>
</head>
<body>
  <h1>Check Leap Year</h1>
  <input type="number" id="year" placeholder="Enter a year" />
  <button id="check">Check Leap Year</button>
  <p id="result"></p>
</body>
</html>
```

itwd_assignment3/q2.js

```
document.getElementById('check').addEventListener('click', function() {
  let year = parseInt(document.getElementById('year').value);
  let result = document.getElementById('result');

  if ((year % 4 === 0 && year % 100 !== 0) || (year % 400 === 0)) {
    result.innerText = "It is a leap year" ;
  } else {
    result.innerText = "It is not a leap year";
  }
});
```


3) Odd, Even , Positive ,Negative

itwd_assignment3/q3.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Odd Even </title>
  <script src="q3.js" defer></script>
</head>
<body>
  <h1>Check whether it is odd or even number</h1>
  <input type="number" id="year" placeholder="Enter a number" />
  <button id="check">Check</button>
  <p id="result"></p>
</body>
</html>
```

itwd_assignment3/q3.js

```
document.getElementById('check').addEventListener('click', function() {
  let num = parseInt(document.getElementById('year').value);
  let result = document.getElementById('result');

  if (num %2==0 && num>0) {
    result.innerText = "It is a positive even number" ;
  } else if(num %2!=0 && num>0) {
    result.innerText = "It is a positive odd number ";
  }
  else if(num %2==0 && num<0) {
```

```
        result.innerText = "It is a negative even number ";
    }
    else if(num %2!=0 && num<0) {
        result.innerText = "It is a negative odd number ";
    }
    });
```

4) Maximum, Minimum number

itwd_assignment3/q4.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Maximum and Minimum</title>
</head>
<body>
  <h3>Maximum and Minimum numbers </h3>
  <script>

    let numbers = [3, 5, 1, 8, 2, 7];
    let maxNumber = numbers[0];
    let minNumber = numbers[0];

    for (let i = 1; i < numbers.length; i++) {
      if (numbers[i] > maxNumber) {
        maxNumber = numbers[i];
      }
      if (numbers[i] < minNumber) {
        minNumber = numbers[i];
      }
    }

    document.write("Maximum number:", maxNumber);
    document.write("Minimum number:", minNumber);

  </script>
</body>
</html>
```

5) Get Mark of 3 subjects and give result like if total marks are between 0 – 50 then fail ,50 –100 then pass ,100-150 then first class

itwd_assignment3/q5.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Marksheet</title>
  <script src="q5.js" defer></script>
</head>
<body>
  <h1>Marksheet</h1>
  <input type="number" id="sub1" placeholder="Enter marks of Subject 1:"
/><br>
  <input type="number" id="sub2" placeholder="Enter marks of Subject 2:"
/><br>
  <input type="number" id="sub3" placeholder="Enter marks of Subject 3:"
/><br>
  <button id="check">Submit</button><br>

  <p id="result"></p>
</body>
</html>
```

itwd_assignment3/q5.js

```
document.getElementById('check').addEventListener('click', function() {
  let sub1 = parseInt(document.getElementById('sub1').value);
  let sub2 = parseInt(document.getElementById('sub2').value);
  let sub3 = parseInt(document.getElementById('sub3').value);
```

```
let result = document.getElementById('result');

if (isNaN(sub1) || isNaN(sub2) || isNaN(sub3)) {
    result.innerText = "Please enter valid marks.";
    return;
}

let total = sub1 + sub2 + sub3;

if (total >= 0 && total <= 50) {
    result.innerText = "Your grade is: Fail";
} else if (total > 50 && total <= 100) {
    result.innerText = "Your grade is:Pass";
} else if (total > 100 && total <= 150) {
    result.innerText = "Your grade is:First class";
} else {
    result.innerText = "Your grade is:Invalid total";
}
});
```

6) Enter Color name and according to it textbox color will change**itwd_assignment3/q6.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Color Changer</title>
  <script src="q6.js" defer></script>
</head>
<body>
  <h1>Change Textbox Color</h1>
  <label for="colorInput">Enter a color:</label>
  <input type="text" id="colorInput" placeholder="Enter a color name" />
  <button id="changeColor">Change Color</button>
</body>
</html>
```

itwd_assignment3/q6.js

```
document.getElementById('changeColor').addEventListener('click',
function() {
  let colorName = document.getElementById('colorInput').value;
  let colorInput = document.getElementById('colorInput');

  colorInput.style.backgroundColor = colorName;

  document.getElementById('colorInput').value = "";
});
```

**7) Enter student no according to no display message “Good”, ”Try best in next exam”,
”Need to improve” (Select case)**

itwd_assignment3/q7.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>
  <form onsubmit="return disp();">
    <label for="no">Enter a number:</label>
    <input type="number" id="no" placeholder="Enter a number"><br>
    <button id="check">Ok</button>
  </form>
  <p id="result"></p>
  <script>
    function disp(){
      let num = parseInt(document.getElementById("no").value);
      let result=document.getElementById('result');

      switch(num){
        case 1:
          result.innerText = "Good!";
          break;

        case 2:
          result.innerText = "Try best in next exam";
          break;

        case 3:
```

```
        result.innerText = "Need to improve.";
        break;
    default:
        result.innerText = "Invalid number.";
    }
    return false;
}
</script>
</body>
</html>
```


8) Print Table

itwd_assignment3/q8.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Multiplication Table</title>
  <style>
    .textbox {
      margin: 5px;
      padding: 10px;
    }
    .button {
      padding: 10px;
      margin-top: 10px;
    }
    table, th, td {
      border: 1px solid black;
      border-collapse: collapse;
      padding: 10px;
    }
  </style>
</head>
<body>
  <h2>Multiplication Table Generator</h2>
  <input type="text" id="number" class="textbox" placeholder="Enter a
number">
  <button onclick="generateTable()" class="button">Generate
Table</button>
  <br><br>
  <div id="tableContainer"></div>

  <script>
    function generateTable() {
```

```
let number = parseInt(document.getElementById('number').value);
let tableContainer = document.getElementById('tableContainer');
tableContainer.innerHTML = "";

if (isNaN(number)) {
    tableContainer.innerHTML = "Please enter a valid number.";
    return;
}

let table = document.createElement('table');
for (var i = 1; i <= 10; i++) {
    let row = table.insertRow();
    let cell1 = row.insertCell(0);
    let cell2 = row.insertCell(1);
    let cell3 = row.insertCell(2);
    cell1.innerHTML = number;
    cell2.innerHTML = "x";
    cell3.innerHTML = i + " = " + (number * i);
}

tableContainer.appendChild(table);
}
</script>
</body>
</html>
```

9) Reverse number , Reverse string , Palindrome

itwd_assignment3/q9.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Number and String Operations</title>
  <style>
    .textbox {
      margin: 5px;
      padding: 10px;
      width: 200px;
    }
    .button {
      padding: 10px;
      margin-top: 10px;
    }
  </style>
</head>
<body>
  <h2>Number and String Operations</h2>
  <input type="text" id="number" class="textbox" placeholder="Enter a
number">
  <button onclick="reverseNumber()" class="button">Reverse
Number</button>
  <h3 id="numberResult"></h3>
  <br>
  <input type="text" id="string" class="textbox" placeholder="Enter a
string">
  <button onclick="reverseString()" class="button">Reverse
String</button>
  <button onclick="checkPalindrome()" class="button">Check
Palindrome</button>
  <h3 id="stringResult"></h3>
```

```
<script>
  function reverseNumber() {
    let number = document.getElementById('number').value;
    let reversedNumber = number.split('').reverse().join('');
    document.getElementById('numberResult').innerText = "Reversed
Number: " + reversedNumber;
  }

  function reverseString() {
    let str = document.getElementById('string').value;
    let reversedString = str.split('').reverse().join('');
    document.getElementById('stringResult').innerText = "Reversed
String: " + reversedString;
  }

  function checkPalindrome() {
    let str = document.getElementById('string').value;
    let reversedString = str.split('').reverse().join('');
    if (str === reversedString) {
      document.getElementById('stringResult').innerText = str + " is a
palindrome.";
    } else {
      document.getElementById('stringResult').innerText = str + " is not
a palindrome.";
    }
  }
</script>
</body>
</html>
```

10) Factorial of number.**itwd_assignment3/q10.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Factorial of a number</title>
</head>
<body>
  <h3>Factorial of a number</h3>
  <label for="num">Enter a number to find its factorial</label>
  <input type="number" id="num"><br>
  <button type="submit" id="ok" onclick="return
factorial()">Submit</button>
  <p id="result"></p>

  <script>
    function factorial(){
      let num = parseInt(document.getElementById('num').value);
      let result = document.getElementById('result');

      if (num < 0) {
        result.innerText = "Factorial is not defined for negative numbers.";
        return;
      }

      let factorial = 1;
      for (let i = 1; i <= num; i++) {
        factorial *= i;
      }

      result.innerText = "Factorial of " + num + " is " + factorial;
```

}

</script>

</body>

</html>

11) Addition of series like 1234 then answer $1+2+3+4 = 10$ **itwd_assignment3/q11.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Sum of Digits</title>
</head>
<body>
  <h1>Sum of Digits</h1>

  <div>
    <label for="num">Enter a number:</label>
    <input type="number" id="num" placeholder="Enter a number"
required>
    <button id="sum" onclick="return sum()">Calculate Sum</button>
    <p id="result"></p>
  </div>
  <script>
    function sum(){
      let number = document.getElementById('num').value;
      let result = document.getElementById('result');

      let sum = 0;

      for (let i = 0; i < number.length; i++) {
        sum += parseInt(number[i]);
      }

      result.innerText = "Sum of digits: " + sum;
    }
  </script>
</body>
</html>
```

```
</script>  
</body>  
</html>
```


12) To display Good morning, Good afternoon, Good evening depending upon the system time.**itwd_assignment3/q12.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Greeting </title>
</head>
<body>
  <h1 id="greeting"></h1>
  <script>
    window.onload = function() {
      let greeting = document.getElementById('greeting');
      let currentHour = new Date().getHours(); // Get the current hour

      if (currentHour < 12) {
        greeting.innerText = "Good Morning!";
      } else if (currentHour < 18) {
        greeting.innerText = "Good Afternoon!";
      } else {
        greeting.innerText = "Good Evening!";
      }
    }
  </script>
</body>
</html>
```

13) To display today's date in the status bar of the browser.**itwd_assignment3/q13.html**

```
<!DOCTYPE html>
<html>
<head>
  <title>Display Today's Date</title>
  <style>
    .textbox {
      margin: 5px;
      padding: 10px;
      width: 200px;
    }
    .button {
      padding: 10px;
      margin-top: 10px;
    }
    #dateDisplay {
      font-size: 1.2em;
      margin-top: 10px;
    }
  </style>
</head>
<body>
  <h2>Today's Date</h2>
  <div id="dateDisplay"></div>

  <script>
    function displayDate() {
      let now = new Date();
      let dateStr = now.toDateString();
      document.getElementById('dateDisplay').innerText = "Today's Date:
" + dateStr;
```

```
    }  
  
    // Call the function to display the date  
    displayDate();  
</script>  
</body>  
</html>
```

14) Take 2 textboxes and 2 radio buttons one radio button name is Square and second one name is Cube. First text box accept the value from user whenever you click on square appropriate result will be display in second textbox.

itwd_assignment3/q14.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Square and Cube Calculator</title>
  <style>
    .textbox {
      margin: 5px;
      padding: 10px;
      width: 200px;
    }
    .button {
      padding: 10px;
      margin-top: 10px;
    }
  </style>
</head>
<body>
  <h2>Square and Cube Calculator</h2>
  <input type="text" id="inputValue" class="textbox" placeholder="Enter a
number">
  <br>
  <input type="radio" id="square" name="operation" value="square">
<label for="square">Square</label>
  <input type="radio" id="cube" name="operation" value="cube"> <label
for="cube">Cube</label>
  <br>
  <input type="text" id="result" class="textbox" placeholder="Result"
readonly>
```

```
<br>
<button onclick="calculate()" class="button">Calculate</button>

<script>
  function calculate() {
    let value =
parseFloat(document.getElementById('inputValue').value);
    let result = 0;

    if (document.getElementById('square').checked) {
      result = value * value;
    } else if (document.getElementById('cube').checked) {
      result = value * value * value;
    }

    document.getElementById('result').value = result;
  }
</script>
</body>
</html>
```

15) Display digital clock on button and on status bar.**itwd_assignment3/q15.html**

```
<!DOCTYPE html>
<html>
<head>
  <title>Digital Clock</title>
  <style>
    .button {
      padding: 10px;
      margin: 10px;
      font-size: 18px;
    }
    #clock {
      font-size: 24px;
    }
  </style>
</head>
<body>
  <h2>Digital Clock</h2>
  <button class="button" id="clockButton">Show Time</button>
  <div id="clock"></div>

  <script>
    function updateClock() {
      let now = new Date();
      let hours = now.getHours().toString().padStart(2, '0');
      let minutes = now.getMinutes().toString().padStart(2, '0');
      let seconds = now.getSeconds().toString().padStart(2, '0');
      let timeString = hours + ":" + minutes + ":" + seconds;

      document.getElementById('clockButton').innerText = timeString;
```

```
document.getElementById('clock').innerText = "Current Time: " +  
timeString;
```

```
    if (window.status !== undefined) {  
        window.status = timeString;  
    }  
}  
setInterval(updateClock, 1000);  
updateClock();  
</script>  
</body>  
</html>
```

16) Write JavaScript code having two (number) textbox and one ADD button that display addition of two number in third –result text box, Apply proper validation

itwd_assignment3/q16.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Addition Calculator</title>
  <style>
    .textbox {
      margin: 5px;
      padding: 10px;
      width: 200px;
    }
    .button {
      padding: 10px;
      margin-top: 10px;
    }
  </style>
</head>
<body>
  <h2>Addition Calculator</h2>
  <input type="text" id="number1" class="textbox" placeholder="Enter first
number">
  <input type="text" id="number2" class="textbox" placeholder="Enter
second number">
  <br>
  <button onclick="addNumbers()" class="button">ADD</button>
  <br>
  <input type="text" id="result" class="textbox" placeholder="Result"
readonly>
  <br>
```



```
<span id="error" style="color: red;"></span>

<script>
  function addNumbers() {
    let num1 = document.getElementById('number1').value;
    let num2 = document.getElementById('number2').value;
    let error = document.getElementById('error');
    let resultBox = document.getElementById('result');

    error.innerText = "";
    resultBox.value = "";

    if (!isNumber(num1) || !isNumber(num2)) {
      error.innerText = "Please enter valid numbers in both textboxes.";
      return;
    }

    var sum = parseFloat(num1) + parseFloat(num2);
    resultBox.value = sum;
  }

  function isNumber(value) {
    return !isNaN(value) && value.trim() !== "";
  }
</script>
</body>
</html>
```

17) Form with all the validations

itwd_assignment3/q17.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Form with Validations</title>
  <style>
    .textbox {
      margin: 5px;
      padding: 10px;
      width: 200px;
    }
    .button {
      padding: 10px;
      margin-top: 10px;
    }
    .error {
      color: red;
      font-size: 0.9em;
    }
  </style>
</head>
<body>
  <h2>Registration Form</h2>
  <form id="registrationForm" onsubmit="return validateForm()">
    <label for="name">Name:</label>
    <input type="text" id="name" class="textbox" placeholder="Enter your
name">
    <span id="nameError" class="error"></span>
    <br>
    <label for="email">Email:</label>
    <input type="text" id="email" class="textbox" placeholder="Enter your
email">
    <span id="emailError" class="error"></span>
```

```
<br>
<label for="password">Password:</label>
<input type="password" id="password" class="textbox"
placeholder="Enter your password">
<span id="passwordError" class="error"></span>
<br>
<label for="contact">Contact Number:</label>
<input type="text" id="contact" class="textbox" placeholder="Enter
your contact number">
<span id="contactError" class="error"></span>
<br>
<button type="submit" class="button">Register</button>
</form>

<script>
function validateForm() {
    let isValid = true;

    // Name validation
    let name = document.getElementById('name').value;
    let nameError = document.getElementById('nameError');
    if (name.trim() === "") {
        nameError.innerText = "Name is required.";
        isValid = false;
    } else {
        nameError.innerText = "";
    }

    // Email validation
    let email = document.getElementById('email').value;
    let emailError = document.getElementById('emailError');
    let emailPattern = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,6}$/;
    if (email.trim() === "") {
        emailError.innerText = "Email is required.";
        isValid = false;
    }
```

```
    } else if (!emailPattern.test(email)) {
        emailError.innerText = "Please enter a valid email address.";
        isValid = false;
    } else {
        emailError.innerText = "";
    }

    // Password validation
    let password = document.getElementById('password').value;
    let passwordError = document.getElementById('passwordError');
    if (password.trim() === "") {
        passwordError.innerText = "Password is required.";
        isValid = false;
    } else if (password.length < 6) {
        passwordError.innerText = "Password must be at least 6
characters long.";
        isValid = false;
    } else {
        passwordError.innerText = "";
    }

    // Contact number validation
    let contact = document.getElementById('contact').value;
    let contactError = document.getElementById('contactError');
    let contactPattern = /^[0-9]{10}$/;
    if (contact.trim() === "") {
        contactError.innerText = "Contact number is required.";
        isValid = false;
    } else if (!contactPattern.test(contact)) {
        contactError.innerText = "Please enter a valid 10-digit contact
number.";
        isValid = false;
    } else {
        contactError.innerText = "";
    }
}
```

```
        return isValid;  
    }  
</script>  
</body>  
</html>
```

18) Takes one number from user using prompt and display its square on screen and square root.

itwd_assignment3/q18.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Square and Square Root Calculator</title>
  <style>
    .textbox {
      margin: 5px;
      padding: 10px;
      width: 200px;
    }
  </style>
</head>
<body>
  <h2>Square and Square Root Calculator</h2>
  <button onclick="calculateSquareAndRoot()">Enter Number</button>
  <h3 id="squareResult"></h3>
  <h3 id="sqrtResult"></h3>

  <script>
    function calculateSquareAndRoot() {
      let number = prompt("Please enter a number:");
      let squareResult = document.getElementById('squareResult');
      let sqrtResult = document.getElementById('sqrtResult');

      if (number !== null && !isNaN(number) && number.trim() !== "") {
        number = parseFloat(number);
        let square = number * number;
        let squareRoot = Math.sqrt(number);
```

```
        squareResult.innerText = "Square: " + square;
        sqrtResult.innerText = "Square Root: " + squareRoot;
    } else {
        squareResult.innerText = "Please enter a valid number.";
        sqrtResult.innerText = "";
    }
}
</script>
</body>
</html>
```

19) Takes input Fahrenheit temperature from user and convert it into Celsius**itwd_assignment3/q19.html**

```
<!DOCTYPE html>
<html>
<head>
  <title>Fahrenheit to Celsius Converter</title>
  <style>
    .textbox {
      margin: 5px;
      padding: 10px;
      width: 200px;
    }
    .button {
      padding: 10px;
      margin-top: 10px;
    }
  </style>
</head>
<body>
  <h2>Fahrenheit to Celsius Converter</h2>
  <input type="text" id="fahrenheit" class="textbox" placeholder="Enter
temperature in Fahrenheit">
  <button onclick="convertToFahrenheit()"
class="button">Convert</button>
  <h3 id="result"></h3>

  <script>
    function convertToFahrenheit() {
      let fahrenheit = document.getElementById('fahrenheit').value;
      let result = document.getElementById('result');
```



```
        if (!isNaN(fahrenheit) && fahrenheit.trim() !== "") {  
            var celsius = (parseFloat(fahrenheit) - 32) * 5 / 9;  
            result.innerText = fahrenheit + "°F is " + celsius.toFixed(2) + "°C";  
        } else {  
            result.innerText = "Please enter a valid number.";  
        }  
    }  
</script>  
</body>  
</html>
```

20) change user input into uppercase and lower case using two button Uppercase & Lower Case

itwd_assignment3/q20.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Case Converter</title>
  <style>
    .textbox {
      margin: 5px;
      padding: 10px;
      width: 200px;
    }
    .button {
      padding: 10px;
      margin-top: 10px;
    }
  </style>
</head>
<body>
  <h2>Case Converter</h2>
  <input type="text" id="userInput" class="textbox" placeholder="Enter
text">
  <br>
  <button onclick="convertToUpper()" class="button">Uppercase</button>
  <button onclick="convertToLower()" class="button">Lowercase</button>
  <h3 id="result"></h3>

  <script>
    function convertToUpper() {
      let inputText = document.getElementById('userInput').value;
      document.getElementById('result').innerText =
inputText.toUpperCase();
```

```
    }

    function convertToLower() {
        let inputText = document.getElementById('userInput').value;
        document.getElementById('result').innerText =
inputText.toLowerCase();
    }
</script>
</body>
</html>
```

21) Display welcome message using alert when page loaded and display message bye when page unloaded/closed.

itwd_assignment3/q21.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Welcome and Goodbye Messages</title>
</head>
<body>
  <script>
    window.onload = function() {
      alert("Welcome to the page!");
    };

    window.onbeforeunload = function() {
      return "Bye! Are you sure you want to leave?";
    };
  </script>
</body>
</html>
```

**22) Count number of occurrence of particular character
itwd_assignment3/q22.html**

```
<!DOCTYPE html>
<html>
<head>
  <title>Character Occurrence Counter</title>
  <style>
    .textbox {
      margin: 5px;
      padding: 10px;
      width: 200px;
    }
    .button {
      padding: 10px;
      margin-top: 10px;
    }
  </style>
</head>
<body>
  <h2>Character Occurrence Counter</h2>
  <input type="text" id="inputString" class="textbox" placeholder="Enter a string">
  <input type="text" id="charToCount" class="textbox" placeholder="Enter a character">
  <button onclick="countCharacter()" class="button">Count
Occurrences</button>
  <h3 id="result"></h3>

  <script>
    function countCharacter() {
      let inputString = document.getElementById('inputString').value;
      let charToCount = document.getElementById('charToCount').value;
      let result = document.getElementById('result');
```

```
    if (charToCount.length !== 1) {
        result.innerText = "Please enter a single character.";
        return;
    }

    let count = 0;
    for (let i = 0; i < inputString.length; i++) {
        if (inputString[i] === charToCount) {
            count++;
        }
    }

    result.innerText = "The character " + charToCount + " occurs " +
count + " times.";
    }
</script>
</body>
</html>
```

23) Email validation, check whether email address is valid or not**itwd_assignment3/q23.html**

```
<!DOCTYPE html>
<html>
<head>
  <title>Email Validation</title>
  <style>
    .textbox {
      margin: 5px;
      padding: 10px;
      width: 300px;
    }
    .button {
      padding: 10px;
      margin-top: 10px;
    }
    .error {
      color: red;
    }
    .success {
      color: green;
    }
  </style>
</head>
<body>
  <h2>Email Validation</h2>
  <input type="text" id="email" class="textbox" placeholder="Enter your
email address">
  <button onclick="validateEmail()" class="button">Validate</button>
  <h3 id="result"></h3>
```

```
<script>
  function validateEmail() {
    let email = document.getElementById('email').value;
    let result = document.getElementById('result');
    let emailPattern = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,6}$/;

    if (emailPattern.test(email)) {
      result.innerText = "Valid email address.";
      result.className = "success";
    } else {
      result.innerText = "Invalid email address.";
      result.className = "error";
    }
  }
</script>
</body>
</html>
```


24) Print 11,22,33,44 upto (1 to N) Like $1^1 = 1$ $2^2 = 4$.**itwd_assignment3/q24.html**

```
<!DOCTYPE html>
<html>
<head>
  <title>Power Series</title>
  <style>
    .textbox {
      margin: 5px;
      padding: 10px;
      width: 200px;
    }
    .button {
      padding: 10px;
      margin-top: 10px;
    }
  </style>
</head>
<body>
  <h2>Power Series Calculator</h2>
  <input type="text" id="number" class="textbox" placeholder="Enter a
number (N)">
  <button onclick="printPowerSeries()" class="button">Print
Series</button>
  <div id="result"></div>

  <script>
    function printPowerSeries() {
      let n = parseInt(document.getElementById('number').value);
      let result = document.getElementById('result');
      result.innerHTML = ""; // Clear previous results

      if (isNaN(n) || n <= 0) {
```

```
        result.innerText = "Please enter a valid positive integer.";
        return;
    }

    for (let i = 1; i <= n; i++) {
        result.innerHTML += i + "^" + i + " = " + Math.pow(i,i) + "<br>";
    }
}
</script>
</body>
</html>
```

25) Print various pyramids

itwd_assignment3/q25.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Pyramid of Stars</title>
  <style>
    .button {
      padding: 10px;
      margin: 10px;
    }
    pre {
      font-size: 18px;
      line-height: 1.5;
    }
  </style>
</head>
<body>
  <h2>Pyramid of Stars</h2>
  <button onclick="printPyramid()" class="button">Print Pyramid</button>
  <pre id="result"></pre>

  <script>
    function printPyramid() {
      let n = 5; // Number of rows
      let result = "";
      for (let i = 1; i <= n; i++) {
        result += ' '.repeat(n - i) + '*'.repeat(2 * i - 1) + '\n';
      }
      document.getElementById('result').innerText = result;
    }
  </script>
</body>
```

```
</html>

<!DOCTYPE html>
<html>
<head>
  <title>Inverted Pyramid of Stars</title>
  <style>
    .button {
      padding: 10px;
      margin: 10px;
    }
    pre {
      font-size: 18px;
      line-height: 1.5;
    }
  </style>
</head>
<body>
  <h2>Inverted Pyramid of Stars</h2>
  <button onclick="printInvertedPyramid()" class="button">Print Inverted
Pyramid</button>
  <pre id="result"></pre>

  <script>
    function printInvertedPyramid() {
      let n = 5; // Number of rows
      let result = "";
      for (let i = n; i >= 1; i--) {
        result += ' '.repeat(n - i) + '*'.repeat(2 * i - 1) + '\n';
      }
      document.getElementById('result').innerText = result;
    }
  </script>
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<head>
  <title>Number Pyramid</title>
  <style>
    .button {
      padding: 10px;
      margin: 10px;
    }
    pre {
      font-size: 18px;
      line-height: 1.5;
    }
  </style>
</head>
<body>
  <h2>Number Pyramid</h2>
  <button onclick="printNumberPyramid()" class="button">Print Number
Pyramid</button>
  <pre id="result"></pre>

  <script>
    function printNumberPyramid() {
      let n = 5; // Number of rows
      let result = "";
      for (let i = 1; i <= n; i++) {
        result += ' '.repeat(n - i);
        for (let j = 1; j <= i; j++) {
          result += j + ' ';
        }
        result += '\n';
      }
    }
  </script>
</body>
</html>
```

```
        document.getElementById('result').innerText = result;
    }
</script>
</body>
</html>
```