## lab program 5

Develop HTML page named as newspaper.html" having variety of HTML semantic elements with background colors, text-colors and size for figure,table,aside,section,article, header,footer etc.,

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>The Daily Chronicle</title>
<style>
body {
font-family:Georgia;
line-height: 1.6;
color: #333;
max-width: 1200px;
margin: 0 auto;
padding: 20px;
background-color: #f4f4f4;
header {
background-color: #1a1a1a;
color: #fff;
padding: 20px;
text-align: center;
header h1 {
margin: 0;
font-size: 2.5em;
}
nav {
background-color: #333;
color: #fff;
padding: 10px;
nav ul {
list-style-type: none;
padding: 0;
margin: 0;
display: flex;
justify-content: center;
nav ul li {
margin: 0 10px;
nav ul li a {
color: #fff;
```

```
text-decoration: none;
}
main {
display: flex;
margin-top: 20px;
section {
flex: 2;
margin-right: 20px;
article {
background-color: #fff;
padding: 20px;
margin-bottom: 20px;
box-shadow: 0 0 10px rgba(0,0,0,0.1);
article h2 {
color: #1a1a1a;
font-size: 1.8em;
aside {
flex: 1;
background-color: #e6e6e6;
padding: 20px;
box-shadow: 0 0 10px rgba(0,0,0,0.1);
figure {
margin: 0;
text-align: center;
figure img {
max-width: 100%;
height: auto;
figcaption {
font-style: italic;
color: #666;
font-size: 0.9em;
table {
width: 100%;
border-collapse: collapse;
margin-bottom: 20px;
th, td {
border: 1px solid #ddd;
padding: 10px;
text-align: left;
th {
background-color: #f2f2f2;
```

```
footer {
background-color: #1a1a1a;
color: #fff;
text-align: center;
padding: 10px;
margin-top: 20px;
</style>
</head>
<body>
<header>
<h1>The Daily Chronicle</h1>
</header>
<nav>
<a href="https://www.ndtvprofit.com/">Profit</a>
<a
href="https://www.ndtv.com/world#pfrom=home-gadgets header-globalnav">World</a>
<a href="https://www.gadgets360.com/#pfrom=ndtv-globalnav">Technology</a>
<a href="https://sports.ndtv.com/#pfrom=ndtv-globalnav">Sports</a>
<a
href="https://www.ndtv.com/entertainment#pfrom=sports-header-globalnav">Entertainment</a>
</nav>
<main>
<section>
<article>
<h2>Breaking News: Major Technological Breakthrough</h2>
Scientists have announced a groundbreaking discovery in the field of quantum computing,
potentially revolutionizing the tech industry.
<figure>
<ima
src="https://www.cnet.com/a/img/resize/c7cb26e927bebaa784fb55a01e71d7fecb15d2e3/hub/20
19/06/26/3f76e99d-8055-46f3-8f27-558ee276b665/20180405-
ibm-q-quantum-computer-02.jpg?auto=webp&fit=crop&height=675&width=1200" alt="Quantum
Computer">
<figcaption>A state-of-the-art quantum computer at the research facility</figcaption>
</figure>
</article>
<article>
<h2>Local Sports Team Wins Championship</h2>
In a thrilling match, our local team secured victory in the national championship, bringing
pride to our city.
```

```
Team
Score
Local Heroes
3
Visiting Challengers
2
</article>
</section>
<aside>
<h3>Weather Update</h3>
Expect sunny skies with a high of 75°F (24°C) today.
<h3>Upcoming Events</h3>
City Festival - This Weekend
Tech Conference - Next Month
Charity Run - In Two Weeks
</aside>
</main>
<footer>
© 2024 The Daily Chronicle. All rights reserved.
</footer>
</body>
</html>
```

## Lab program 6

Apply HTML, CSS and Javascript to design a simple calculator to perform the following operations sum, product, difference, remainder, quotient, power, square-root and square.

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

```
font-family: Arial, sans-serif;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  margin: 0;
  background-color: #f0f0f0;
}
.calculator {
  background-color: #fff;
  border-radius: 8px;
  box-shadow: 0 0 10px rgba(0,0,0,0.1);
  padding: 20px;
  width: 300px;
}
#display {
  width: 100%;
  height: 40px;
  font-size: 1.5em;
  text-align: right;
  margin-bottom: 10px;
  padding: 5px;
  box-sizing: border-box;
.buttons {
  display: grid;
  grid-template-columns: repeat(4, 1fr);
  gap: 10px;
}
button {
  padding: 10px;
  font-size: 1.2em;
  border: none;
  background-color: #e0e0e0;
  cursor: pointer;
  border-radius: 4px;
button:hover {
  background-color: #d0d0d0;
.operator {
  background-color: #f0a030;
  color: white;
}
```

```
.operator:hover {
       background-color: #e09020;
    }
  </style>
</head>
<body>
  <div class="calculator">
     <input type="text" id="display">
     <div class="buttons">
       <button onclick="appendToDisplay('7')">7</button>
       <button onclick="appendToDisplay('8')">8</button>
       <button onclick="appendToDisplay('9')">9</button>
       <button class="operator" onclick="setOperation('+')">+</button>
       <button onclick="appendToDisplay('4')">4</button>
       <button onclick="appendToDisplay('5')">5</button>
       <button onclick="appendToDisplay('6')">6</button>
       <button class="operator" onclick="setOperation('-')">-</button>
       <button onclick="appendToDisplay('1')">1</button>
         <button onclick="appendToDisplay('2')">2</button>
         <button onclick="appendToDisplay('3')">3</button>
         <button class="operator" onclick="setOperation('*')">*</button>
         <button onclick="appendToDisplay('0')">0</button>
         <button onclick="appendToDisplay('.')">.</button>
         <button class="operator" onclick="calculate()">=</button>
         <button class="operator" onclick="setOperation('/')">/</button>
         <button class="operator" onclick="setOperation('%')">%</button>
         <button class="operator" onclick="setOperation('^')">x<sup>y</sup></button>
         <button class="operator" onclick="squareRoot()">√</button>
         <button class="operator" onclick="square()">x<sup>2</sup></button>
         <button onclick="clearDisplay()">C</button>
       </div>
  </div>
let display = document.getElementById('display');
let currentValue = ";
let operation = ";
let previousValue = ";
function appendToDisplay(value) {
currentValue += value;
display.value = currentValue;
}
function clearDisplay() {
```

```
currentValue = ";
operation = ";
previousValue = ";
display.value = ";
}
function setOperation(op) {
if (currentValue !== ") {
          if (previousValue !== ") {
             calculate();
          }
          operation = op;
          previousValue = currentValue;
          currentValue = ";
       }
     }
     function calculate() {
        if (previous Value !== " && current Value !== ") {
          let result;
          const prev = parseFloat(previousValue);
          const current = parseFloat(currentValue);
          switch(operation) {
             case '+':
               result = prev + current;
               break;
             case '-':
               result = prev - current;
               break;
             case '*':
               result = prev * current;
               break;
             case '/':
               result = prev / current;
               break;
             case '%':
               result = prev % current;
               break;
             case '^':
               result = Math.pow(prev, current);
               break;
```

```
}
          display.value = result;
       }
     }
     function squareRoot() {
       if (currentValue !== ") {
          const result = Math.sqrt(parseFloat(currentValue));
          display.value = result;
      }
     }
     function square() {
       if (currentValue !== ") {
          const result = Math.pow(parseFloat(currentValue), 2);
          display.value = result;
          }
     }
  </script>
</body>
</html>
```