Q .1

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

    h2 {
        font-size: 24px;
        margin-top: 20px;
    }

    input[type="text"] {
        padding: 8px;
        margin-top: 10px;
    }

    button {
        padding: 10px 20px;
        color: #540fd4;
        border: none;
        border-radius: 5px;
        cursor: pointer;
    }

    .spin {
        animation: spin 1s linear infinite;
    }

    @keyframes spin {
        from {
            transform: rotate(0deg);
        }
        to {
            transform: rotate(360deg);
        }
    }
</style>
```
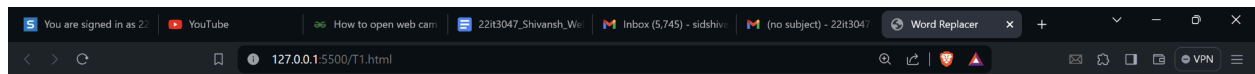
```
</head>
<body>
    <h2 id="output">Hello</h2>
    <input type="text" id="input" placeholder="Enter a word or phrase">
    <button onclick="replaceWord()">Replace</button>

    <script>
        function replaceWord() {
            const inputElement = document.getElementById('input');
            const outputElement = document.getElementById('output');
            const word = inputElement.value.trim();

            if (word !== '') {
                outputElement.innerText = word;
                outputElement.classList.add('spin');
                setTimeout(() => {
                    outputElement.classList.remove('spin');
                }, 1000);
            }
        }
    </script>
</body>
</html>
```

Q.2

```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Increment Counter</title>
<style>
    body {
        font-family: Arial, sans-serif;
    }

    button {
        padding: 10px 20px;
        background-color: #007bff;
        color: #fff;
        border: none;
        border-radius: 5px;
        cursor: pointer;
        font-size: 16px;
    }

    #count {
        font-size: 16px;
        margin-top: 20px;
    }
</style>
</head>
<body>
    <button onclick="incrementCounter()">Click Me!</button>
    <p id="count">0</p>

    <script>
        let count = 0;
        const countElement = document.getElementById('count');

        function incrementCounter() {
            count++;
            countElement.textContent = count;
            countElement.style.fontSize = `${16 + count}px`;
        }
    </script>
</body>
</html>
```

Q.3
```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Dynamic List of Numbers</title>
</head>
<body>
   <input type="number" id="numberInput">
   <button onclick="addNumberToList()">Add Number</button>
   <ul id="numberList"></ul>

   <script>
     function addNumberToList() {
        const numberInput = document.getElementById('numberInput');
        const number = Number(numberInput.value);

        const li = document.createElement('li');
        li.textContent = number;

        const numberList = document.getElementById('numberList');
        numberList.appendChild(li);
```

```
            numberInput.value = '';
        }
    </script>
</body>
</html>
```

```
[                    ] [Add Number]

    • 45
    • 31
```

Q4.
```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Dynamic Table</title>
<style>
    table {
        border-collapse: collapse;
        width: 100%;
    }

    th, td {
        border: 1px solid #ddd;
        padding: 8px;
        text-align: center;
    }

    th {
        background-color: #f2f2f2;
    }
</style>
</head>
<body>
    <button onclick="addRow()">Add Row</button>
    <table id="myTable">
        <tr>
            <th>Row Number</th>
            <th>Value</th>
        </tr>
        <tr>
            <td>1</td>
```

```html
        <td>1</td>
      </tr>
      <tr>
        <td>2</td>
        <td>1</td>
      </tr>
    </table>

    <script>
      function addRow() {
        const table = document.getElementById('myTable');
        const rows = table.getElementsByTagName('tr');
        const lastRowValue = parseInt(rows[rows.length - 1].cells[1].innerText);
        const secondLastRowValue = parseInt(rows[rows.length - 2].cells[1].innerText);
        const sum = lastRowValue + secondLastRowValue;

        const newRow = table.insertRow();
        const cell1 = newRow.insertCell(0);
        const cell2 = newRow.insertCell(1);

        cell1.innerText = rows.length - 1;
        cell2.innerText = sum;
}

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

Row Number	Value
1	1
2	1
3	2
4	3
5	5
6	8

Q5.

```html
<!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>
</head>
<body>
  <input type="text" id="num1" placeholder="Enter number 1">
  <input type="text" id="num2" placeholder="Enter number 2">
  <br>
  <select id="operation">
    <option value="add">+</option>
    <option value="subtract">-</option>
    <option value="multiply">*</option>
    <option value="divide">/</option>
  </select>
  <br>
  <button onclick="calculate()">Calculate</button>
  <br>
  <div id="result"></div>

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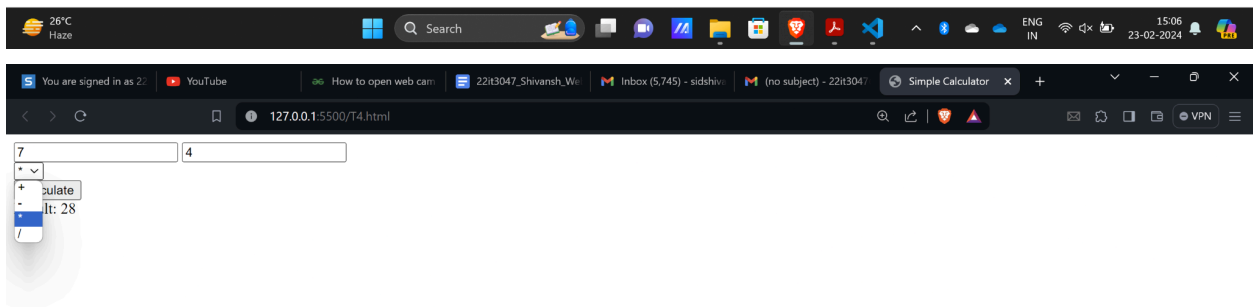
```javascript
    function calculate() {
        const num1 = Number.parseInt(document.getElementById('num1').value);
        const num2 = Number.parseInt(document.getElementById('num2').value);
        const operation = document.getElementById('operation').value;
        let result;

        switch (operation) {
            case 'add':
                result = num1 + num2;
                break;
            case 'subtract':
                result = num1 - num2;
                break;
            case 'multiply':
                result = num1 * num2;
                break;
            case 'divide':
                result = num1 / num2;
                break;
            default:
                result = 'Invalid operation';
        }

        document.getElementById('result').textContent = `Result: ${result}`;
    }
</script>
</body>
</html>
```
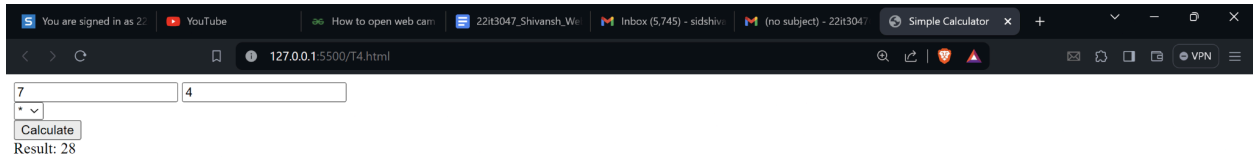
Q6.
```html
<!DOCTYPE html>
<html lang="en">
```

```
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Dynamically Add Content</title>
</head>
<body>
<button onclick="addContent();">Click Here</button>

<script>
function addContent() {
    const h1 = document.createElement('h1');
    h1.textContent = 'I am an H1';
    document.body.appendChild(h1);

    const paragraph = document.createElement('p');
    paragraph.textContent = 'This is a paragraph followed by a list';
    document.body.appendChild(paragraph);

    const list = document.createElement('ol');
    const listItem1 = document.createElement('li');
    listItem1.textContent = 'This is first';
    list.appendChild(listItem1);

    const listItem2 = document.createElement('li');
    listItem2.textContent = 'This is second';
    list.appendChild(listItem2);

    document.body.appendChild(list);
}
</script>
</body>
</html>
```
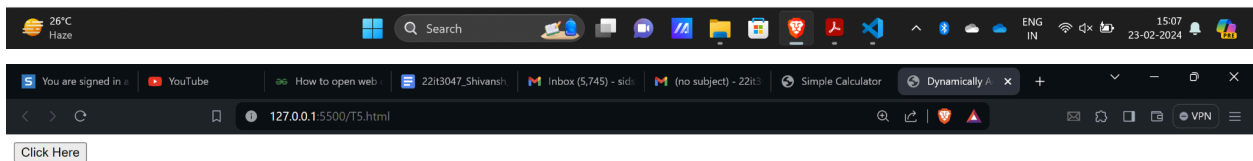
Click Here

I am an H1

This is a paragraph followed by a list

1. This is first
2. This is second

Q7.
```
<!DOCTYPE html>
<html lang="en">
```

```html
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Tip Calculator</title>
<style>
    body {
        font-family: Arial, sans-serif;
        margin: 0;
        padding: 0;
        box-sizing: border-box;
    }

    .container {
        max-width: 400px;
        margin: 50px auto;
        padding: 20px;
        border: 1px solid #ccc;
        border-radius: 5px;
        text-align: center;
    }

    input[type="range"] {
        width: 100%;
    }

    input[type="number"] {
        width: 100%;
        padding: 8px;
        margin-top: 10px;
        text-align: center;
    }

    button {
        padding: 10px 20px;
        margin-top: 20px;
        background-color: #007bff;
        color: #fff;
        border: none;
        border-radius: 5px;
        cursor: pointer;
    }

    #tip-amount {
        font-size: 24px;
```

```html
        font-weight: bold;
        margin-top: 20px;
    }
  </style>
  </head>
  <body>
    <div class="container">
      <h2>Tip Calculator</h2>
      <label for="tip-percentage">Tip Percentage: <span
id="tip-percentage-value">15%</span></label>
      <input type="range" id="tip-percentage" min="0" max="30" value="15" step="1">
      <label for="split">Split With: <span id="split-value">1 person</span></label>
      <input type="range" id="split" min="1" max="10" value="1" step="1">
      <button id="calculate">Calculate Tip</button>
      <div id="tip-amount"></div>
    </div>

    <script>
      const tipPercentageInput = document.getElementById('tip-percentage');
      const splitInput = document.getElementById('split');
      const tipAmountOutput = document.getElementById('tip-amount');

      tipPercentageInput.addEventListener('input', updateTipPercentage);
      splitInput.addEventListener('input', updateSplit);

      function updateTipPercentage() {
        const tipPercentageValue = document.getElementById('tip-percentage-value');
        tipPercentageValue.textContent = `${tipPercentageInput.value}%`;
      }

      function updateSplit() {
        const splitValue = document.getElementById('split-value');
        splitValue.textContent = `${splitInput.value} person${splitInput.value > 1 ? 's' : "}`;
      }

      document.getElementById('calculate').addEventListener('click', () => {
        const billAmount = parseFloat(prompt('Enter the bill amount:'));
        if (!isNaN(billAmount)) {
          const tipPercentage = parseFloat(tipPercentageInput.value);
          const split = parseFloat(splitInput.value);
          const tipAmount = (billAmount * tipPercentage / 100) / split;
tipAmountOutput.textContent = `Tip Amount per person: ₹${tipAmount.toFixed(2)}`;
        }
      });
```
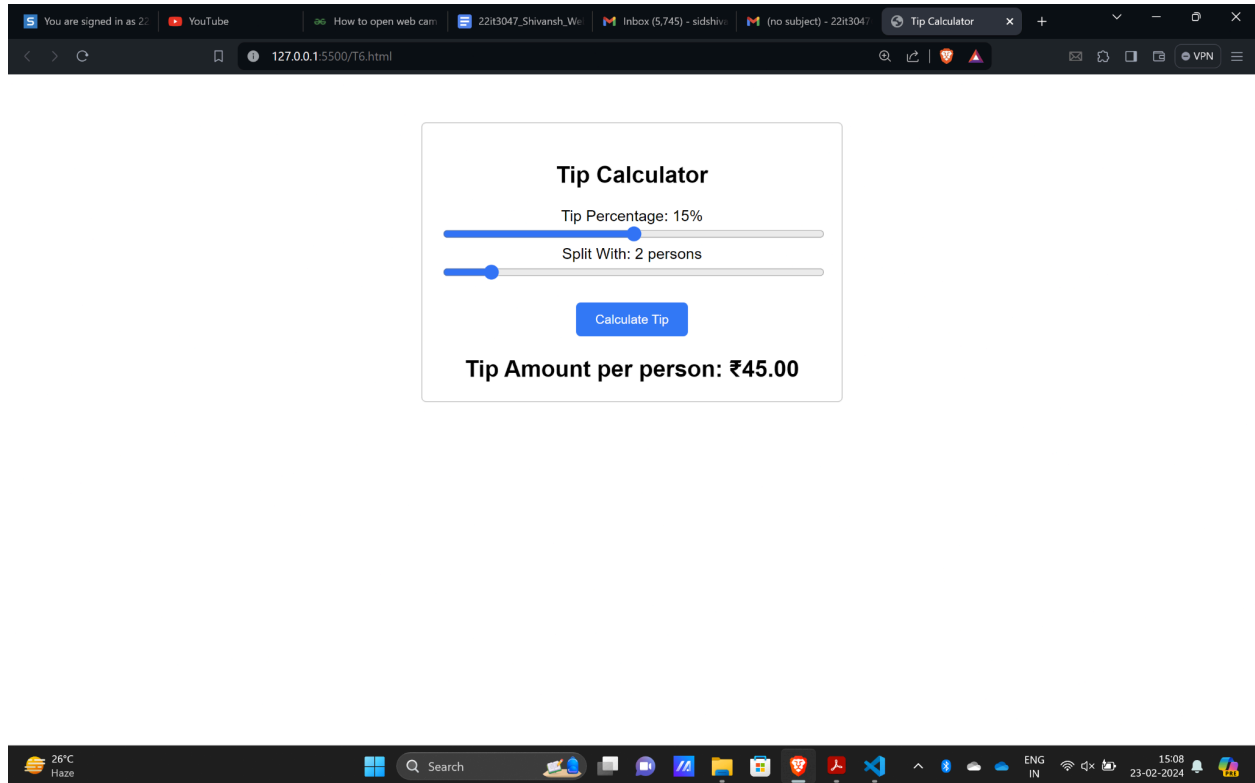
```
    </script>
</body>
</html>
```


Tip Calculator

Tip Percentage: 15%

Split With: 2 persons

Calculate Tip

Tip Amount per person: ₹45.00

127.0.0.1:5500/T6.html

Tip Calculator

Tip Percentage: 15%

Split With: 2 persons

Calculate Tip