ASSIGNMENT – 1

1. BASIC CALCULATOR

CODE :

```
<!DOCTYPE html>
<html>
<head>
  <title>Simple Calculator</title>

  <style>
    body { text-align: center; font-family: Arial; }
      .calculator {
      display: inline-block;
      border: 1px solid #000;
      padding: 10px;
    }
    input { width: 160px; height: 30px; font-size: 18px; text-align: right; }
    button { width: 40px; height: 40px; margin: 2px; }
  </style>
</head>

<body>

<h3>Calculator</h3>

<div class="calculator">
  <input id="display" disabled><br><br>

<button onclick="add(1)">1</button>
<button onclick="add(2)">2</button>
<button onclick="add(3)">3</button>
<button onclick="add('+')">+</button><br>

<button onclick="add(4)">4</button>
<button onclick="add(5)">5</button>
<button onclick="add(6)">6</button>
<button onclick="add('-')">-</button><br>

<button onclick="add(7)">7</button>
<button onclick="add(8)">8</button>
<button onclick="add(9)">9</button>
<button onclick="add('*')">*</button><br>
```

```html
<button onclick="add(0)">0</button>
<button onclick="clearDisplay()">C</button>
<button onclick="calculate()">=</button>
<button onclick="add('/')">/</button>

<script>
  let display = document.getElementById("display");

  function add(value) {
    display.value += value;
  }

  function clearDisplay() {
    display.value = "";
  }

  function calculate() {
    display.value = eval(display.value);
  }
</script>

</body>
</html>
```
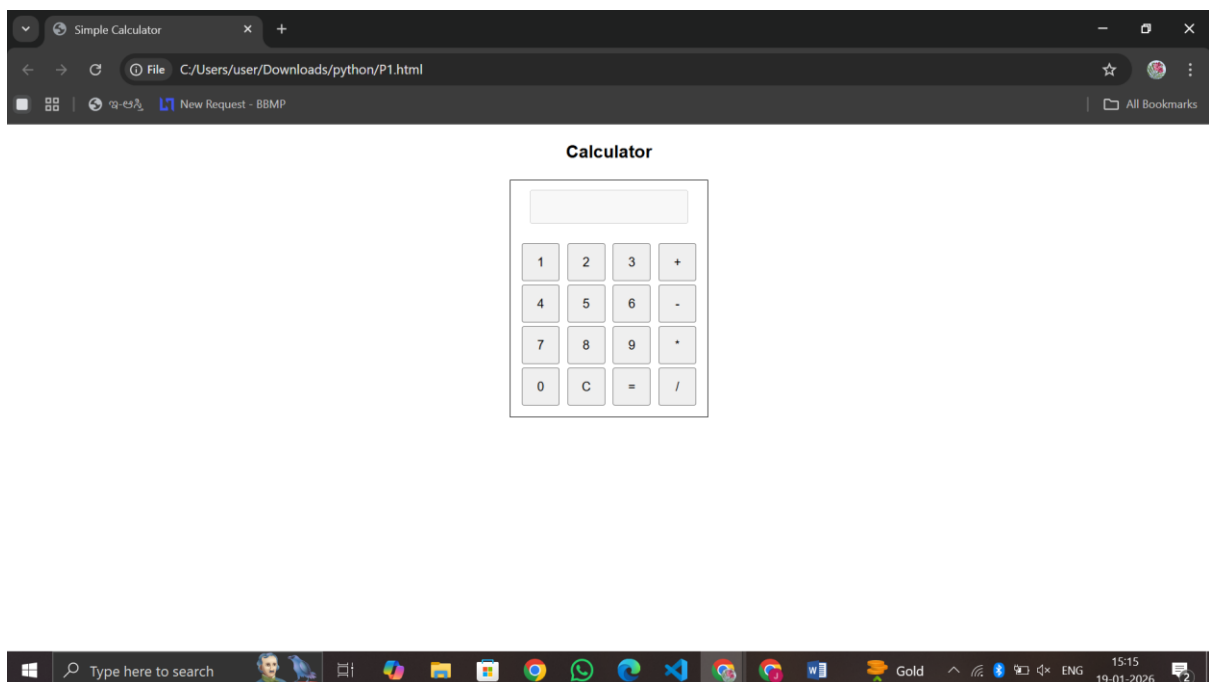
OUTPUT:

2. DISCOUNT

CODE:

```html
<!DOCTYPE html>
<html>
<head>
    <title>Metro Ticket Discount</title>

    <style>
        body { font-family: Arial; }
        div { width: 300px; margin: auto; }
        input, select, button { width: 100%; margin-top: 8px; }
    </style>
</head>

<body>

<div>
    <h3>Metro Ticket Discount</h3>

    Age:
    <input type="number" id="age">

    Gender:
    <select id="gender">
        <option value="">Select</option>
        <option value="M">Male</option>
        <option value="F">Female</option>
    </select>

    Ticket Price:
    <input type="number" id="price">

    <button onclick="calculate()">Calculate</button>

    <p id="result"></p>
</div>

<script>
function calculate() {

    let age = Number(document.getElementById("age").value);
    let gender = document.getElementById("gender").value;
    let price = Number(document.getElementById("price").value);
```

```javascript
    let discount = 0;

    if (age < 5) {
        discount = 100;
    } else if (age <= 8) {
        discount = 50;
    } else if (age > 65) {
        discount = 70;
    }

    if (gender === "F") {
        discount = Math.max(discount, 50);
    }

    let finalPrice = price - (price * discount / 100);

    document.getElementById("result").innerHTML =
        "Discount: " + discount + "% <br> Final Price: ₹" + finalPrice;
}
</script>

</body>
</html>
```

OUTPUT :

Metro Ticket Discount

Age:

76

Gender:

Male

Ticket Price:

120

Calculate

Discount: 70%
Final Price: ₹36

3. ITEMS LIST

CODE:

```html
<!DOCTYPE html>
<html>
<head>
  <title>Simple Juice Cart</title>
  <style>
    body { font-family: Arial; text-align: center; }
    .item { margin: 15px; padding: 10px; border: 1px solid #ccc; display:
inline-block; width: 200px; }
    button { margin: 3px; padding: 5px 10px; }
    #cartDiv { margin-top: 20px; font-weight: bold; }
  </style>
</head>
<body>

<h2>Juice Shop</h2>

<div id="itemsContainer"></div>

<button id="viewCartBtn" style="display:none;" onclick="showCart()">View
Cart</button>

<div id="cartDiv"></div>

<script>
  // Juice items
  const juices = ["Mango Juice", "Apple Juice", "Strawberry Juice"];
  let counts = [0,0,0]; // quantity for each item

  const container = document.getElementById("itemsContainer");

  // Create items dynamically
  juices.forEach((juice, i) => {
    const div = document.createElement("div");
    div.className = "item";
    div.innerHTML = `
      <p>${juice}</p>
      <button id="addBtn${i}">ADD</button>
      <span id="qtyBox${i}" style="display:none;">
        <button onclick="minus(${i})">-</button>
        <span id="qty${i}">1</span>
        <button onclick="plus(${i})">+</button>
      </span>
```

```javascript
      <p id="msg${i}">Cart is empty</p>
    `;
    container.appendChild(div);

    document.getElementById("addBtn"+i).onclick = () => add(i);
  });

  function updateViewCartBtn() {
    document.getElementById("viewCartBtn").style.display = counts.some(c =>
c>0) ? "inline" : "none";
  }

  function add(i) {
    counts[i] = 1;
    document.getElementById("addBtn"+i).style.display = "none";
    document.getElementById("qtyBox"+i).style.display = "inline";
    document.getElementById("qty"+i).innerText = counts[i];
    document.getElementById("msg"+i).innerText = "1 item added";
    updateViewCartBtn();
  }

  function plus(i) {
    counts[i]++;
    document.getElementById("qty"+i).innerText = counts[i];
    document.getElementById("msg"+i).innerText = counts[i] + " items added";
    updateViewCartBtn();
  }

  function minus(i) {
    if(counts[i]>0) counts[i]--;
    document.getElementById("qty"+i).innerText = counts[i];

    if(counts[i]===0){
      document.getElementById("qtyBox"+i).style.display="none";
      document.getElementById("addBtn"+i).style.display="inline";
      document.getElementById("msg"+i).innerText = "Cart is empty";
    } else {
      document.getElementById("msg"+i).innerText = counts[i] + " items added";
    }
    updateViewCartBtn();
  }

  function showCart() {
    const cartDiv = document.getElementById("cartDiv");
    cartDiv.innerHTML = "<h3>Cart Items:</h3>";
    let hasItems = false;
    juices.forEach((juice,i)=>{
      if(counts[i]>0){
```

```
        cartDiv.innerHTML += `<p>${juice} - ${counts[i]}</p>`;
        hasItems = true;
      }
    });
    if(!hasItems) cartDiv.innerHTML = "<p>Cart is empty</p>";
  }
</script>

</body>
</html>
```

OUTPUT: