

3. HTML

A. Create a basic calculator using HTML, CSS, and JavaScript with the functionality of add, subtract, multiply and divide.

Program:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <style>
    *{
      padding: 0;
      margin: 0;
      font-family: 'poppins', sans-serif;
    }
    body{
      background-color: #495250;
      display: grid;
      height: 100vh;
      place-items: center;
    }
    .main{
      width: 400px;
      height: 450px;
      background-color: white;
      position: absolute;
      border: 5px solid black;
      border-radius: 6px;
    }
    .main input[type='text'] {
      width: 88%;
      position: relative;
      height: 80px;
      top: 5px;
      text-align: right;
      padding: 3px 6px;
      outline: none;
      font-size: 40px;
      border: 5px solid black;
      display: flex;
      margin: auto;
      border-radius: 6px;
      color: black;
    }
    .btn input[type='button']{
      width:90px;

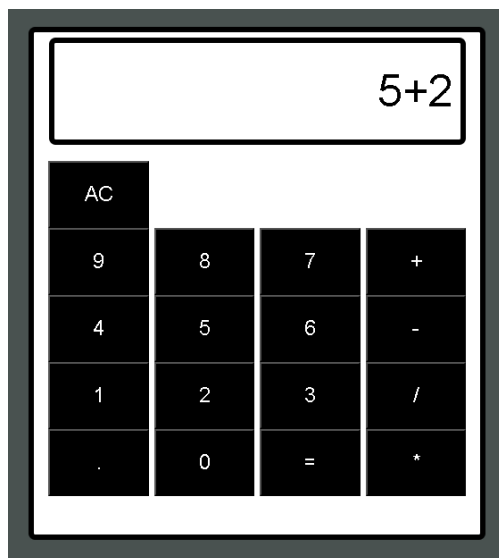
      position: relative;
      left: 13px;
      top: 20px;
      height: 60px;
      cursor: pointer;
      font-size: 18px;
      transition: 0.5s;
      background-color: #495250;
      border-radius: 0px;
      color: white;
    }
    .btn input[type='button']{
      background-color: black;
      color: white;
      border-radius: 0px
    }
  </style>
  <script>
    function Solve(val) {
      var v = document.getElementById('res');
      v.value += val;
    }
    function Result() {
      var num1 = document.getElementById('res').value;
      var num2 = eval(num1);
      document.getElementById('res').value = num2;
    }
  </script>
</html>
```

```

function Clear() {
    var inp = document.getElementById('res');
    inp.value = '';
}
</script>
<title>Calculator</title>
</head>
<body>
    <div class="main">
        <input type="text" id = 'res'>
        <div class="btn">
            <input type="button" value = 'AC' onclick = "Clear()">
            <br>
            <input type="button" value = '9' onclick = "Solve('9')">
            <input type="button" value = '8' onclick = "Solve('8')">
            <input type="button" value = '7' onclick = "Solve('7')">
            <input type="button" value = '+' onclick = "Solve('+')">
            <br>
            <input type="button" value = '4' onclick = "Solve('4')">
            <input type="button" value = '5' onclick = "Solve('5')">
            <input type="button" value = '6' onclick = "Solve('6')">
            <input type="button" value = '-' onclick = "Solve('-')">
            <br>
            <input type="button" value = '1' onclick = "Solve('1')">
            <input type="button" value = '2' onclick = "Solve('2')">
            <input type="button" value = '3' onclick = "Solve('3')">
            <input type="button" value = '/' onclick = "Solve('/')">
            <br>
            <input type="button" value = '.' onclick = "Solve('.')">
            <input type="button" value = '0' onclick = "Solve('0')">
            <input type="button" value = '=' onclick = "Result()">
            <input type="button" value = '*' onclick = "Solve('*')">
        </div>
    </div>
    <script src = 'Calc.js' ></script>
</body>
</html>

```

Output:



B.Create a survey form with Fields; First Name, Last Name, Date of Birth, Country (dropdown), Gender (checkbox), Profession, email, and mobile number. All the input fields are necessary to submit the form. Create two buttons Submit and Reset. Reset will reset the

form while clicking on submit, first, it will check all the fields and necessary validations and then a popup will appear displaying all the selected values with the label in front of it. On closing the popup, the form should reset all the values.

Program:

```
<!DOCTYPE html>
<html>
<head>
  <title>Survey Form</title>
  <style>
    label{
      padding-right: 15px;
    }
    #popup {
      display: none;
      position: fixed;
      top: 50%;
      left: 50%;
      transform: translate(-50%, -50%);
      padding: 20px;
      background: white;
      box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.5);
    }
  </style>
</head>
<body>
  <h1>Survey Form</h1>
  <form id="surveyForm">
    <label for="firstName">First Name:</label>
    <input type="text" id="firstName" required><br><br>
    <label for="lastName">Last Name:</label>
    <input type="text" id="lastName" required><br><br>
    <label for="dob">Date of Birth:</label>
    <input type="date" id="dob" required><br><br>
    <label for="country">Country:</label>
    <select id="country" required>
      <option value="India">India</option>
      <option value="Canada">Canada</option>
      <option value="UK">UK</option>
    </select><br><br>
    <label>Gender:</label><br>
    <input type="checkbox" id="male" name="gender" value="Male">
    <label for="male">Male</label><br>
    <input type="checkbox" id="female" name="gender" value="Female">
    <label for="female">Female</label><br>
    <input type="checkbox" id="other" name="gender" value="Other">
    <label for="other">Other</label><br><br>
    <label for="profession">Profession:</label>
    <input type="text" id="profession" required><br><br>
    <label for="email">Email:</label>
    <input type="email" id="email" required><br><br>
    <label for="mobile">Mobile Number:</label>
    <input type="tel" id="mobile" required><br><br>
    <button type="button" id="submitButton" onclick="submitForm()">Submit</button>
    <button type="button" id="resetButton" onclick="resetForm()">Reset</button>
  </form>

  <div id="popup">
    <h2>Submitted Values</h2>
    <p id="popupContent"></p>
    <button onclick="closePopup()">Close</button>
  </div>

  <script>
    function submitForm() {
      const firstName = document.getElementById('firstName').value;
      const lastName = document.getElementById('lastName').value;
      const dob = document.getElementById('dob').value;
      const country = document.getElementById('country').value;
      const genderInputs = document.querySelectorAll('input[name="gender"]:checked');
      const gender = [...genderInputs].map(input => input.value).join(', ');
      const profession = document.getElementById('profession').value;
      const email = document.getElementById('email').value;
      const mobile = document.getElementById('mobile').value;
```

```
const popupContent = `
  First Name: ${firstName}<br>
  Last Name: ${lastName}<br>
  Date of Birth: ${dob}<br>
  Country: ${country}<br>
  Gender: ${gender}<br>
  Profession: ${profession}<br>
  Email: ${email}<br>
  Mobile Number: ${mobile}
`;
document.getElementById('popupContent').innerHTML = popupContent;
document.getElementById('popup').style.display = 'block';
}

function resetForm() {
  document.getElementById('surveyForm').reset();
}

function closePopup() {
  document.getElementById('popup').style.display = 'none';
  resetForm();
}
</script>
</body>
</html>
```