```html
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Simple Calculator</title>

    <link rel="stylesheet" href="style.css">

    <style>

        body {

    background: #f1f2f6;

    display: grid;

    align-items: center;

    justify-content: center;

    height: 100vh;

    margin: 0;

}


.calculator {

    background: #373747;

    border-radius: 24px;

    padding: 32px 24px 24px 24px;

    box-shadow: 0 8px 40px rgba(44, 44, 84, 0.2);

    width: 340px;

}


.display {

    color: #fff;

    background: none;

    font-size: 44px;

    text-align: right;

    padding: 24px 12px 8px 12px;

    height: 48px;
```

```css
    border-radius: 8px;

    margin-bottom: 18px;

    letter-spacing: 2px;

}


.buttons {

    display: grid;

    grid-template-columns: repeat(4, 68px);

    grid-gap: 12px;

}


.btn {

    height: 54px;

    border: none;

    border-radius: 14px;

    font-size: 24px;

    background: #555668;

    color: #fff;

    cursor: pointer;

    transition: background .2s;

}


.btn.orange {

    background: #FDB72A;

    color: #fff;

}


.btn.gray {

    background: #dae0e8;

    color: #333;

}
```

```css
.btn.zero {
    grid-column: span 2;
}


.btn:active {
    filter: brightness(0.9);
}
    </style>
</head>
<body>
    <div class="calculator">
        <div class="display" id="display">0</div>
        <div class="buttons">
            <button class="btn gray">ac</button>
            <button class="btn gray">±</button>
            <button class="btn gray">%</button>
            <button class="btn orange">÷</button>

            <button class="btn">7</button>
            <button class="btn">8</button>
            <button class="btn">9</button>
            <button class="btn orange">×</button>

            <button class="btn">4</button>
            <button class="btn">5</button>
            <button class="btn">6</button>
            <button class="btn orange">-</button>

            <button class="btn">1</button>
            <button class="btn">2</button>
```
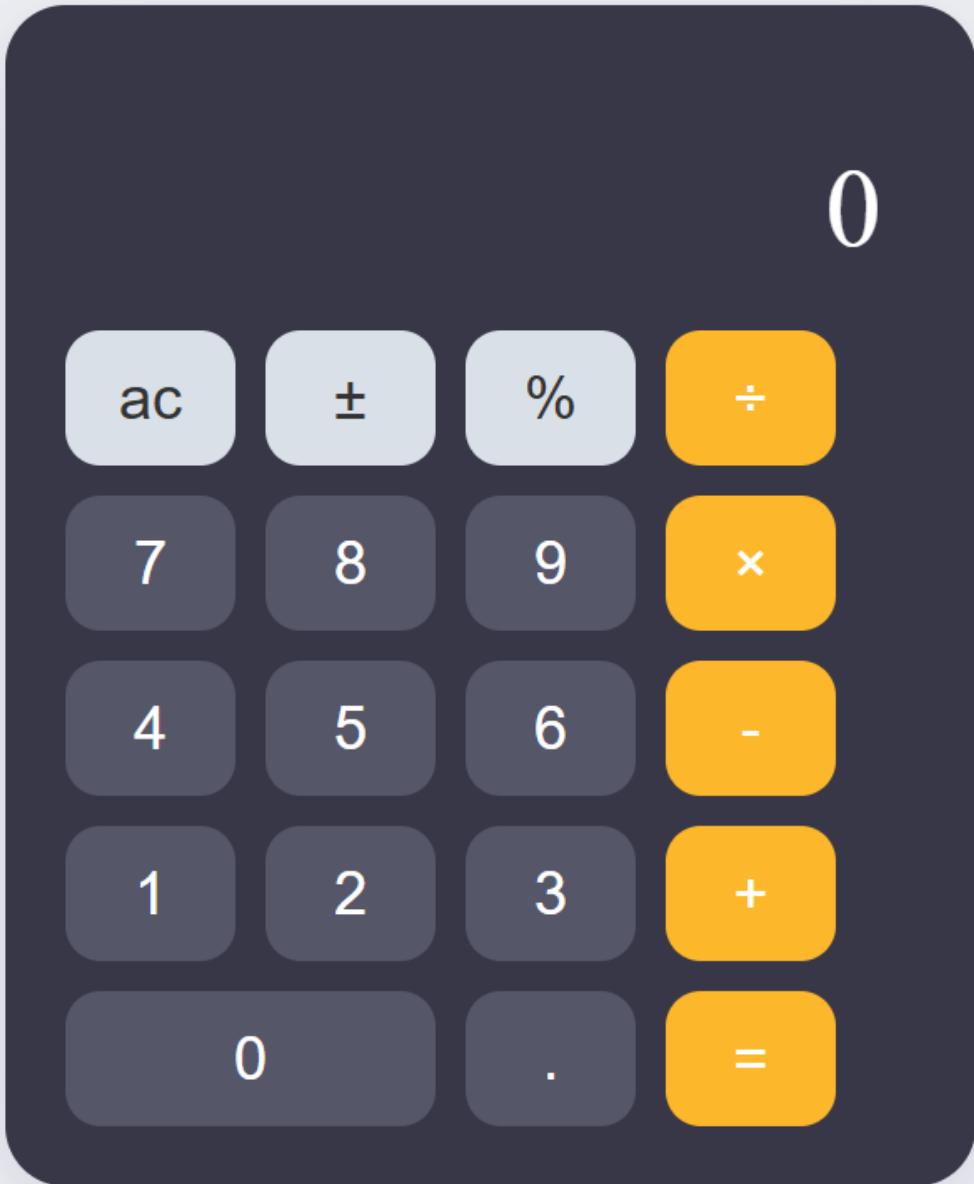
```html
        <button class="btn">3</button>
        <button class="btn orange">+</button>


        <button class="btn zero">0</button>
        <button class="btn">.</button>
        <button class="btn orange">=</button>
      </div>
    </div>


</body>
</html>
```

OUTPUT:

AssinmentQ1)

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="utf-8">

    <meta name="viewport" content="width=device-width, initial-scale=1">

    <title>My Portfolio - Piyush Kumar</title>

```
<style>
  :root{
    --bg:#08c932;

    --panel:#038eff;

    --accent:#39d0d6;

    --text:#ecf6fb;

    --muted:#9fb6c6;

  }

  *{box-sizing:border-box}
  html,body{height:100%}
  body{
    margin:0;

    font-family: "Segoe UI", Roboto, Arial, sans-serif;

    background: linear-gradient(180deg,var(--bg), #021827 60%);

    color:var(--text);

    display:flex;

    flex-direction:column;

    min-height:100vh; /* ensures footer at bottom */

    line-height:1.45;

    font-size:16px; /* base for rem */

  }

  /* fixed header */
  header{
    position:fixed;

    top:0;

    left:0;

    right:0;

    height:64px; /* px unit */

    display:flex;
```

```css
    align-items:center;

    justify-content:space-between;

    padding:0 1.5rem; /* rem unit */

    background:rgba(3,18,30,0.8);

    border-bottom:1px solid rgba(255,255,255,0.04);

    backdrop-filter: blur(6px);

    z-index:1000;

}
/* brand/name */

.brand{

    display:flex;

    align-items:center;

    gap:0.75rem; /* rem */

}

.brand h1{

    margin:0;

    font-size:1.25rem; /* rem */

    letter-spacing:0.02em;

}
/* small logo next to name */

.brand img{

    width:2.2rem;  /* rem */

    height:2.2rem; /* rem */

    object-fit:cover;

    border-radius:6px;

    display:inline-block;

}


/* nav links */

nav a{

    color:var(--text);
```

```css
    text-decoration:none;

    margin-left:1rem;

    padding:0.35rem 0.6rem; /* em/rem mix is fine */

    border-radius:6px;

    font-size:0.95rem; /* rem */

}
nav a:hover{ background: rgba(255,255,255,0.03); color:var(--accent) }


/* main content area */
main{

    flex:1;

    padding: calc(64px + 2rem) 2rem 2rem; /* using px + rem to account for fixed header */

    display:flex;

    justify-content:center;

    align-items:flex-start;

}


.container{

    width:90%;     /* % unit */

    max-width:960px;

    display:flex;

    gap:2rem;

    align-items:center;

}


/* bio card */
.bio{

    flex:1;

    background:rgba(255,255,255,0.03);

    padding:1.25rem; /* rem */

    border-radius:12px;
```

```css
    box-shadow: 0 8px 24px rgba(2,8,16,0.6);

    font-size:1rem; /* rem */

}

.bio h2{ margin-top:0; color:var(--accent) }

.bio p{ color:var(--text); margin-bottom:0.75rem }


/* profile image */

.profile-image{

    width:20vh; /* vh unit */

    min-width:120px;

    border-radius:50%;

    overflow:hidden;

    border:4px solid rgba(255,255,255,0.06);

    flex-shrink:0;

    box-shadow: 0 8px 20px rgba(3,16,28,0.7);

}

.profile-image img{

    width:100%;

    height:100%;

    object-fit:cover;

    display:block;

}


/* footer stays at bottom because body is flex column and main is flex:1 */

footer{

    background: rgba(2,8,16,0.9);

    padding:1rem 1.5rem;

    text-align:center;

    color:var(--muted);

    font-size:0.9rem; /* rem */

    border-top:1px solid rgba(255,255,255,0.02);
```

```html
      }

      /* small responsive tweak */
      @media (max-width:720px){
        .container{ flex-direction:column; align-items:center }
        nav a{ margin-left:0.5rem; font-size:0.9rem }
        .brand h1{ font-size:1rem }
      }
    </style>
</head>
<body>
  <header>
    <div class="brand">
      <!-- small logo next to name -->
      <img src="human.jpg" alt="logo (place restuarent.jpeg in same folder)">
      <h1>Piyush Kumar</h1>
    </div>
    <nav>
      <a href="#home">Home</a>
      <a href="#about">About</a>
      <a href="#contact">Contact</a>
    </nav>
  </header>

  <main id="home">
    <div class="container">
      <div class="profile-image" aria-hidden="false">
        <!-- put a profile.jpg or change filename to your image -->
        <img src="ai.jpg" alt="Piyush Kumar - profile photo">
      </div>
```

```
        <section class="bio" id="about">

            <h2>About Me</h2>

            <p>Hello! I'm Piyush Kumar, a student and aspiring web developer who loves building
simple, accessible websites. I enjoy learning new technologies and solving problems with clean
code.</p>


            <p><strong>Quick facts:</strong> Enthusiastic learner • enjoys painting • likes building
small web projects.</p>


            <p id="contact">Email: <a href="mailto:piyush@example.com" style="color:var(--accent);
text-decoration:none;">piyush@example.com</a></p>

        </section>

    </div>

  </main>


  <footer>

    &copy; 2025 Piyush Kumar — Contact: piyush@example.com &middot; Address: Mathura, India

  </footer>

</body>

</html>
```

OUTPUT: