

```

<!doctype html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width,initial-scale=1">
<title>Simple Calculator</title>
<style>
:root{--bg:#f3f4f6;--card:#fff;--accent:#2563eb;--btn:#e5e7eb}
body{margin:0;font-family:sans-serif;background:var(--bg);display:flex;justify-content:center;align-items:center;height:100vh}
.calculator{width:320px;background:var(--card);border-radius:12px;box-shadow:0 8px 24px rgba(0,0,0,0.12);padding:18px}
.display{background:#0f172a;color:#fff;padding:14px;border-radius:8px;text-align:right;min-height:58px;display:flex;flex-direction:column;justify-content:center}
.expression{opacity:0.78;font-size:13px}
.result{font-size:22px;font-weight:600}
.keys{margin-top:12px;display:grid;grid-template-columns:repeat(4,1fr);gap:10px}
button{padding:14px;border-radius:10px;border:0;font-size:18px;background:var(--btn);cursor:pointer}
.operator{background:#f97316;color:#fff}
.wide{grid-column:span 2}
.equal{background:var(--accent);color:#fff;grid-row:span 2}
@media(max-width:360px){.calculator{width:92vw}}
.hint{margin-top:10px;font-size:12px;color:#374151;text-align:center}
</style>
</head>
<body>
<div class="calculator">
<div class="display"><div class="expression" id="expression">0</div><div class="result" id="result">0</div></div>
<div class="keys">
<button data-action="clear">AC</button><button data-action="delete">DEL</button><button data-value="%">%</button>
<button class="operator" data-value="/">÷</button>
<button data-value="7">7</button><button data-value="8">8</button><button data-value="9">9</button><button
class="operator" data-value="*">×</button>
<button data-value="4">4</button><button data-value="5">5</button><button data-value="6">6</button><button
class="operator" data-value="-">-</button>
<button data-value="1">1</button><button data-value="2">2</button><button data-value="3">3</button><button
class="operator" data-value="+">+</button>
<button class="wide" data-value="0">0</button><button data-value=".">.</button><button class="equal" id="equals">=</button>
</div>
<div class="hint">Tip: use keyboard (numbers, + - * / .), Enter =, Backspace = DEL</div>
</div>
<script>
const
exprEl=document.getElementById('expression'),resEl=document.getElementById('result'),keys=document.querySelector('.keys');
let expr="";
const nice=s=>s.replace(/\*/g,'×').replace(/\/g,'÷');
function update(){
exprEl.textContent=expr||'0';
exprEl.textContent=nice(exprEl.textContent);
try{
if(!expr||[/^0-9.+\/%() ]/.test(expr)) return resEl.textContent='0';
const val=Function('return '+expr.replace(/(\d+(\.\d+)?)%/g,'($1/100)'))();
resEl.textContent=isFinite(val)?+(Math.round(val*1e12)/1e12).toFixed(12):'Err';
}catch{resEl.textContent=""}
}
function insert(c){
const last=expr.slice(-1),ops=['+','-','*', '/', '.', '%'];
if(c==='.'){
const lastOp=Math.max(...['+','-','*', '/'].map(o=>expr.lastIndexOf(o)));
if(expr.slice(lastOp+1).includes('.')) return;
}
if(ops.includes(c)&&ops.includes(last)) expr=expr.slice(0,-1)+c; else expr+=c;
update();
}
function clearAll(){expr="";update()}
function del(){expr=expr.slice(0,-1);update()}
function calc(){

```

```
try{
const val=Function('return '+expr.replace(/(\d+(\.\d+)?)%/g,'($1/100)'))();
if(isFinite(val)) expr=(+val.toString()).toString(),update(); else resEl.textContent='Err';
}catch{resEl.textContent='Err'}
}
keys.onclick=e=>{
const b=e.target.closest('button');if(!b)return;
if(b.dataset.action==='clear')return clearAll();
if(b.dataset.action==='delete')return del();
if(b.dataset.value)insert(b.dataset.value);
if(b.id==='equals')calc();
};
onkeydown=e=>{
if(/^[0-9]$/.test(e.key)||['+', '-', '*', '/', '.', '%', '(', ')'].includes(e.key))insert(e.key);
else if(e.key==='Enter')calc();
else if(e.key==='Backspace')del();
else if(e.key==='Escape')clearAll();
else return; e.preventDefault();
};
update();
</script>
</body>
</html>
```