

HTML code

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Document</title>
  <style>
    body {
      display: flex;
      flex-direction: column;
      justify-content: center;
      align-items: center;
      background-color: beige;
      height: 100vh;
      font-family: Impact, Haettenschweiler, 'Arial Narrow
Bold', sans-serif;
    }

    table {
      border-collapse: collapse;
      width: 50%;
      margin: 10px 0;
      font-size: 4vh;
    }

    th, td {
      padding: 15px;
      text-align: center;
      border: 2px solid #333;
    }

    th {
      text-decoration: underline;
    }

    #vowel, #num {
      font-weight: 700;
    }

    form {
      display: flex;
      justify-content: center;
      align-items: center;
      flex-direction: column;
```

```

    }

    .input{
        background-color: transparent;
        padding: 10px;
        font-size: large;
        border: 2px solid black;
        border-radius: 10px;
    }
    .head{
        font-size: 20px;
        font-weight: 700;
    }
</style>
</head>
<body>
    <table>
        <form>
            <div class="Inputf">
                <p class="head">Input String</p>
                <input type="text" class="input" id="strinput"/>
            </div>
            <div class="Inputf">
                <p class="head">Input Number</p>
                <input type="number" class="input" id="numinput"/>
            </div>
            <!-- <button type="button"
id="submitbtn">Submit</button> -->
        </form>
        <tr>
            <th>Type</th>
            <th>Output of Function</th>
        </tr>
        <tr id="str">
            <td>String</td>
        </tr>
        <tr id="number">
            <td>Number</td>
        </tr>
    </table>
</body>
<script src="index.js"></script>
</html>

```

Java script code:

```

const strdiv = document.getElementById("vowel");
const stri = document.getElementById("str");
const numdiv = document.getElementById("num");
const number = document.getElementById("number");
let str = document.getElementById('strinput').value;
let num = document.getElementById('numinput').value;
let submit = document.getElementById('submitbtn');

function findLastVowel(str){
  let vowel = "AEIOUaeiou";
  let strarr = str.split('')
  console.log(strarr.length)
  let final = 0;
  let vow = '';
  console.log(strarr)
  for (let i = 0; i < strarr.length; i++) {
    if(vowel.includes(strarr[i])){
      final = i+1;
      vow = strarr[i];
      break;
    }
  }
  final = strarr.length - final + 1;
  const para = document.createElement('td');
  para.innerHTML = `${final}(${vow.toLowerCase()})`;
  stri.append(para);
  return 0;
}

function reverseNumber(num){
  let rev = num.toString().split('').reverse().join('');
  const pr = document.createElement('td');
  pr.innerHTML = rev;
  number.append(pr);
  return 0;
}

findLastVowel(str);
reverseNumber(num)

```

Input String

this

Input Number

3445

<u>Type</u>	<u>Output of Function</u>
String	2(i)
Number	5443

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Search cars</title>
  <style>
    body {
      display: flex;
      flex-direction: column;
      justify-content: center;
      align-items: center;
    }
    #myInput {
      font-size: xx-large;
      font-family: Impact, Haettenschweiler, 'Arial Narrow
Bold', sans-serif;
      padding: 10px;
      border-radius: 999px;
      background-color: transparent;
      border: 4px solid black;
    }
    .search{
      display: flex;
      gap: 20px;
    }

    #searchBtn{
      border-radius: 999px;
    }

    .car{
      list-style-type: none;
      font-size: x-large;
    }

  </style>
</head>
<body>
  <div class="search">
    <input type="text" id="myInput" onkeyup="myFunction()"
placeholder="Search for names..">
    <button type="button" id="searchBtn">Search</button>

  </div>
```

```
<ul id="myUL">

</ul>

</body>
<script>
    const cars = [
        "Toyota Corolla", "Honda Civic", "Ford Mustang", "Chevrolet
Camaro", "Nissan Altima",
        "BMW 3 Series", "Mercedes-Benz C-Class", "Audi A4", "Volkswagen
Jetta", "Hyundai Elantra",
        "Kia Forte", "Subaru Impreza", "Mazda3", "Toyota Camry", "Honda
Accord",
        "Ford Explorer", "Chevrolet Tahoe", "Nissan Pathfinder", "Hyundai
Santa Fe", "Kia Sorento",
        "Toyota RAV4", "Honda CR-V", "Ford Escape", "Chevrolet Equinox",
"Subaru Outback",
        "Mazda CX-5", "Volkswagen Tiguan", "Jeep Grand Cherokee", "Dodge
Durango", "GMC Terrain",
        "Tesla Model 3", "BMW X5", "Mercedes-Benz GLC", "Audi Q5", "Lexus
RX",
        "Porsche Macan", "Jaguar F-Pace", "Land Rover Discovery", "Volvo
XC60", "Mitsubishi Outlander",
        "Chrysler Pacifica", "Toyota Sienna", "Honda Odyssey", "Kia
Carnival", "Ford Transit",
        "Chevrolet Suburban", "Nissan NV3500", "Ram ProMaster City",
"Mercedes-Benz Metris", "GMC Savana",
        "Mini Cooper", "Fiat 500", "Volkswagen Beetle", "Honda Fit",
"Nissan Versa",
        "Toyota Yaris", "Hyundai Accent", "Kia Rio", "Chevrolet Spark",
"Ford Fiesta",
        "Mazda2", "Subaru Crosstrek", "Honda HR-V", "Nissan Kicks",
"Hyundai Kona",
        "Toyota C-HR", "Kia Soul", "Volkswagen ID.4", "Tesla Model Y",
"Ford Mustang Mach-E",
        "Chevrolet Bolt", "Nissan Leaf", "BMW i3", "Audi e-tron", "Porsche
Taycan",
        "Jaguar I-PACE", "Lucid Air", "Rivian R1T", "Polestar 2", "Volvo
XC40 Recharge",
        "Land Rover Range Rover", "Tesla Model X", "Mercedes-Benz EQC",
"Hyundai Ioniq 5", "Kia EV6",
        "Genesis GV80", "Acura MDX", "Infiniti QX60", "Lexus NX", "Mazda
MX-5 Miata",
        "Chevrolet Corvette", "Ford GT", "Porsche 911", "Nissan GT-R",
"Dodge Charger",
        "Chrysler 300", "Buick Regal", "Volkswagen Passat", "Toyota
Avalon", "Honda Clarity",
        "Hyundai Sonata", "Kia Optima", "Subaru Legacy", "Mitsubishi
```

```
Eclipse Cross", "Nissan Murano",  
    "Chevrolet Malibu", "Ford Taurus", "Volkswagen Arteon", "Buick  
Envision", "GMC Acadia"  
];
```

```
const list = document.getElementById('myUL');  
  
for(let i = 0; i < cars.length; i++){  
    const ellist = document.createElement('li');  
    const link = document.createElement('a');  
    link.classList.add('car')  
    link.textContent = cars[i];  
    ellist.append(link);  
    list.append(ellist)  
}
```

```
function myFunction() {  
    var input, filter, ul, li, a, i, txtValue;  
    input = document.getElementById('myInput');  
    filter = input.value.toUpperCase();  
    ul = document.getElementById("myUL");  
    li = ul.getElementsByTagName('li');  
  
    for (i = 0; i < li.length; i++) {  
        a = li[i].getElementsByTagName("a")[0];  
        txtValue = a.textContent || a.innerText;  
        if (txtValue.toUpperCase().indexOf(filter) > -1) {  
            li[i].style.display = "";  
        } else {  
            li[i].style.display = "none";  
        }  
    }  
}  
  
</script>  
</html>
```

Search for names..

Search

- Toyota Corolla
- Honda Civic
- Ford Mustang
- Chevrolet Camaro
- Nissan Altima
- BMW 3 Series
- Mercedes-Benz C-Class
- Audi A4
- Volkswagen Jetta
- Hyundai Elantra
- Kia Forte
- Subaru Impreza
- Mazda3
- Toyota Camry
- Honda Accord
- Ford Explorer
- Chevrolet Tahoe
- Nissan Pathfinder
- Hyundai Santa Fe
- Kia Sorento
- Toyota RAV4
- Honda CR-V
- Ford Escape
- Chevrolet Equinox
- Subaru Outback
- Mazda CX-5
- Volkswagen Tiguan
- Jeep Grand Cherokee
- Dodge Durango
- GMC Terrain
- Tesla Model 3
- BMW X5
- Mercedes-Benz GLC
- Audi Q5
- Lexus RX
- Porsche Macan
- Jaguar F-Pace
- Land Rover Discovery
- Volvo XC60
- Mitsubishi Outlander
- Chrysler Pacifica
- Toyota Sienna
- Honda Odyssey
- Kia Carnival
- Ford Transit
- Chevrolet Suburban
- Nissan NV3500
- Ram ProMaster City
- Mercedes-Benz Metris
- GMC Savana
- Mini Cooper
- Fiat 500
- Volkswagen Beetle
- Honda Fit
- Nissan Versa
- Toyota Yaris
- Hyundai Accent
- Kia Rio
- Chevrolet Spark
- Ford Fiesta
- Mazda2
- Subaru Crosstrek
- Honda HR-V
- Nissan Kicks
- Hyundai Kona
- Toyota C-HR
- Kia Soul
- Volkswagen ID.4
- Tesla Model Y
- Ford Mustang Mach-E
- Chevrolet Bolt
- Nissan Leaf
- BMW i3
- Audi e-tron
- Porsche Taycan
- Jaguar I-PACE
- Lucid Air
- Rivian R1T
- Polestar 2
- Volvo XC40 Recharge
- Land Rover Range Rover
- Tesla Model X
- Mercedes-Benz EQC
- Hyundai Ioniq 5
- Kia EV6
- Genesis GV80
- Acura MDX
- Infiniti QX60
- Lexus NX
- Mazda MX-5 Miata
- Chevrolet Corvette
- Ford GT
- Porsche 911
- Nissan GT-R
- Dodge Charger
- Chrysler 300
- Buick Regal
- Volkswagen Passat
- Toyota Avalon
- Honda Clarity
- Hyundai Sonata
- Kia Optima
- Subaru Legacy
- Mitsubishi Eclipse Cross
- Nissan Murano

- Chevrolet Malibu
- Ford Taurus
- Volkswagen Arteon
- Buick Envision
- GMC Acadia

```

<!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>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div class="calculator">
    <input type="text" id="display" disabled>
    <div class="buttons">
      <button onclick="clearDisplay()">C</button>
      <button onclick="appendToDisplay('/')">/</button>
      <button onclick="appendToDisplay('*')">*</button>
      <button onclick="appendToDisplay('-')">-</button>
      <button onclick="appendToDisplay('7')">7</button>
      <button onclick="appendToDisplay('8')">8</button>
      <button onclick="appendToDisplay('9')">9</button>
      <button onclick="appendToDisplay('+')">+</button>
      <button onclick="appendToDisplay('4')">4</button>
      <button onclick="appendToDisplay('5')">5</button>
      <button onclick="appendToDisplay('6')">6</button>
      <button onclick="calculate()">=</button>
      <button onclick="appendToDisplay('1')">1</button>
      <button onclick="appendToDisplay('2')">2</button>
      <button onclick="appendToDisplay('3')">3</button>
      <button onclick="appendToDisplay('0')">0</button>
    </div>
  </div>
  <script src="script.js"></script>
</body>
</html>

```

```

body {
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  background-color: #f0f0f0;
  font-family: Arial, sans-serif;
}

.calculator {
  background: white;

```

```

padding: 20px;
border-radius: 10px;
box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

#display {
width: 100%;
height: 40px;
font-size: 24px;
text-align: right;
margin-bottom: 10px;
border: 1px solid #ccc;
border-radius: 5px;
padding: 5px;
}

.buttons {
display: grid;
grid-template-columns: repeat(4, 1fr);
gap: 10px;
}

button {
height: 50px;
font-size: 18px;
border: none;
border-radius: 5px;
background-color: #007BFF;
color: white;
cursor: pointer;
transition: background-color 0.3s;
}

button:hover {
background-color: #0056b3;
}

```

```

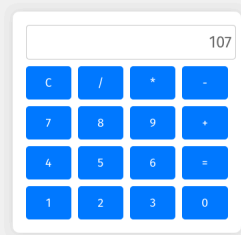
function appendToDisplay(value) {
document.getElementById('display').value += value;
}

function clearDisplay() {
document.getElementById('display').value = '';
}

function calculate() {
const display = document.getElementById('display');
try {

```

```
    display.value = eval(display.value);  
  } catch (error) {  
    display.value = 'Error';  
  }  
}
```



```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Login</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div class="container">
    <h2>Login</h2>
    <form id="loginForm">
      <input type="email" id="loginEmail" placeholder="Email"
required>
      <input type="password" id="loginPassword"
placeholder="Password" required>
      <button type="submit">Login</button>
    </form>
    <p><a href="signup.html">Sign Up</a> | <a href="reset-
password.html">Forgot Password?</a></p>
  </div>
  <script src="script.js"></script>
</body>
</html>

```

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Sign Up</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div class="container">
    <h2>Sign Up</h2>
    <form id="signupForm">
      <input type="text" id="username" placeholder="Username"
required>
      <input type="email" id="email" placeholder="Email"
required>
      <input type="password" id="password"
placeholder="Password" required>
      <button type="submit">Sign Up</button>
    </form>
  </div>
  <script src="script.js"></script>
</body>
</html>

```

```

        </form>
        <p><a href="index.html">Login</a></p>
    </div>
    <script src="script.js"></script>
</body>
</html>

```

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Reset Password</title>
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <div class="container">
        <h2>Reset Password</h2>
        <form id="resetForm">
            <input type="email" id="resetEmail" placeholder="Email"
required>
            <button type="submit">Send Reset Link</button>
        </form>
        <p><a href="index.html">Back to Login</a></p>
    </div>
    <script src="script.js"></script>
</body>
</html>

```

```

body {
    font-family: Arial, sans-serif;
    background-color: #f4f4f4;
}

.container {
    max-width: 400px;
    margin: auto;
    padding: 20px;
    background: white;
    border-radius: 8px;
    box-shadow: 0 0 10px rgba(0,0,0,0.1);
}

h2 {
    text-align: center;
}

```

```

input {
  width: 100%;
  padding: 10px;
  margin: 10px 0;
  border: 1px solid #ccc;
  border-radius: 4px;
}

button {
  width: 100%;
  padding: 10px;
  background: #007bff;
  color: white;
  border: none;
  border-radius: 4px;
  cursor: pointer;
}

button:hover {
  background: #0056b3;
}

p {
  text-align: center;
}

```

```

document.getElementById('signupForm')?.addEventListener('submit',
function(e) {
  e.preventDefault();
  const username = document.getElementById('username').value;
  const email = document.getElementById('email').value;
  const password = document.getElementById('password').value;

  const user = { username, email, password };
  localStorage.setItem(email, JSON.stringify(user));
  alert('Sign up successful! You can now log in.');
```

<index.html>

```

  window.location.href = 'index.html';
});

document.getElementById('loginForm')?.addEventListener('submit',
function(e) {
  e.preventDefault();
  const email = document.getElementById('loginEmail').value;
  const password = document.getElementById('loginPassword').value;

  const user = JSON.parse(localStorage.getItem(email));
  if (user && user.password === password) {

```



```
        alert('Login successful!');
    } else {
        alert('Invalid credentials!');
    }
});

document.getElementById('resetForm')?.addEventListener('submit',
function(e) {
    e.preventDefault();
    const email = document.getElementById('resetEmail').value;

    const user = JSON.parse(localStorage.getItem(email));
    if (user) {
        alert('A password reset link has been sent to ' + email);
    } else {
        alert('Email not found!');
    }
});
```

Login

Email

Password

Login

[Sign Up](#) | [Forgot Password?](#)

Sign Up

Username

Email

Password

Sign Up

[Login](#)

Reset Password

Email

Send Reset Link

[Back to Login](#)