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Task -1

Code

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Number Sorter</title>
<style>
  body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    background-color: #f5f5f5;
  }
  .container {
    text-align: center;
  }
  label {
    display: block;
    margin-bottom: 10px;
  }
  input[type="number"] {
    padding: 5px;
    margin-bottom: 10px;
  }
  button {
    padding: 10px 20px;
    background-color: #4caf50;
    color: white;
    border: none;
    border-radius: 5px;
    cursor: pointer;
  }
  button:hover {
    background-color: #45a049;
```

```

    }
</style>
</head>
<body>
<div class="container">
    <h2>Number Sorter</h2>
    <label for="num1">Enter Number 1:</label>
    <input type="number" id="num1" required><br>
    <label for="num2">Enter Number 2:</label>
    <input type="number" id="num2" required><br>
    <label for="num3">Enter Number 3:</label>
    <input type="number" id="num3" required><br>
    <label for="sortType">Sort Type:</label>
    <select id="sortType">
        <option value="asc">Ascending</option>
        <option value="desc">Descending</option>
    </select><br><br>
    <button onclick="sortNumbers()">Sort Numbers</button><br><br>
    <div id="result"></div>
</div>
<script>
function sortNumbers() {
    var num1 = parseFloat(document.getElementById("num1").value);
    var num2 = parseFloat(document.getElementById("num2").value);
    var num3 = parseFloat(document.getElementById("num3").value);
    var sortType = document.getElementById("sortType").value;

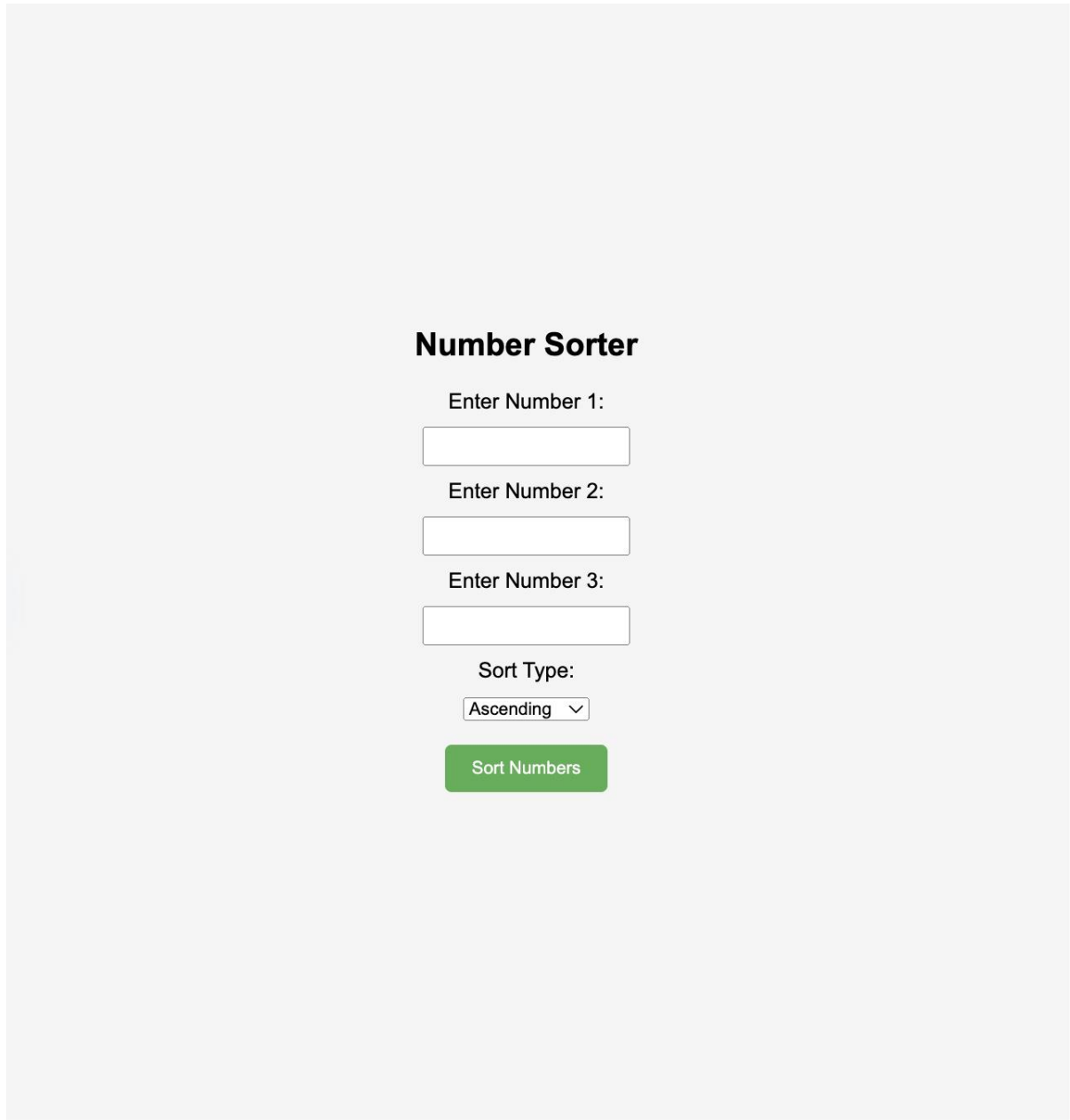
    var numbers = [num1, num2, num3];

    if (sortType === "asc") {
        numbers.sort(function(a, b) {
            return a - b;
        });
    } else {
        numbers.sort(function(a, b) {
            return b - a;
        });
    }

    document.getElementById("result").innerHTML = "Sorted Numbers: " + numbers.join(",
");
}
</script>
</body>
</html>

```

Output Screenshot



The screenshot displays a web application titled "Number Sorter" centered on a light gray background. The interface includes three input fields for numbers, each preceded by a label: "Enter Number 1:", "Enter Number 2:", and "Enter Number 3:". Below these is a "Sort Type:" label followed by a dropdown menu currently set to "Ascending". At the bottom is a green button labeled "Sort Numbers".

Number Sorter

Enter Number 1:

Enter Number 2:

Enter Number 3:

Sort Type:
Ascending ▼

Sort Numbers

Task-2

Code

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Number Functions</title>
<style>
  body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    background-color: #f5f5f5;
  }
  .container {
    text-align: center;
  }
  button {
    padding: 10px 20px;
    background-color: #4caf50;
    color: white;
    border: none;
    border-radius: 5px;
    cursor: pointer;
  }
  button:hover {
    background-color: #45a049;
  }
</style>
</head>
<body>
<div class="container">
  <h2>Number Functions</h2>
  <button onclick="findMax()">Find Maximum</button><br><br>
  <button onclick="checkOddEven()">Check Odd/Even</button><br><br>
```

```

    <button onclick="checkSpeed(80)">Check Speed</button><br><br>
    <div id="result"></div>
</div>
<script>
    function findMax() {
        var num1 = parseFloat(prompt("Enter Number 1:"));
        var num2 = parseFloat(prompt("Enter Number 2:"));
        var num3 = parseFloat(prompt("Enter Number 3:"));

        var max = Math.max(num1, num2, num3);
        var ascending = [num1, num2, num3].sort(function(a, b){return a - b});
        var descending = [num1, num2, num3].sort(function(a, b){return b - a});

        document.getElementById("result").innerHTML = "Maximum: " + max + "<br>" +
            "Ascending Order: " + ascending.join(", ") + "<br>" +
            "Descending Order: " + descending.join(", ");
    }

    function checkOddEven() {
        var num = parseInt(prompt("Enter a Number:"));
        if (num % 2 === 0) {
            document.getElementById("result").innerHTML = num + " is Even.";
        } else {
            document.getElementById("result").innerHTML = num + " is Odd.";
        }
    }

    function checkSpeed(speed) {
        var points = 0;
        if (speed <= 70) {
            document.getElementById("result").innerHTML = "Good Safe Driving";
        } else {
            points = Math.floor((speed - 70) / 5);
            if (speed > 120) {
                document.getElementById("result").innerHTML = "License Suspended";
            } else {
                document.getElementById("result").innerHTML = "Speed Limit Crossed by Penalty
Point: " + points;
            }
        }
    }
}
</script>
</body>
</html>

```

Output Screenshot

Number Functions

Find Maximum

Check Odd/Even

Check Speed

Maximum: NaN
Ascending Order: NaN, NaN, NaN
Descending Order: NaN, NaN, NaN

Task-3

Code

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Event Management</title>
</head>
<body>
<h1>Welcome to Event Management Website</h1>
<a href="login.html">Login</a>
<a href="event_registration_form.html">Event Registration</a>
</body>
</html>
```

Login.html

```
<!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>
<h2>Login</h2>
<form id="loginForm">
  <label for="username">Username:</label>
  <input type="text" id="username" name="username"><br><br>

  <label for="password">Password:</label>
  <input type="password" id="password" name="password"><br><br>

  <button type="submit">Login</button>
</form>
<script src="validation.js"></script>
```

```
</body>
</html>
```

event_registration_form.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Event Registration</title>
<link rel="stylesheet" href="styles.css">
</head>
<body>
<h2>Event Registration</h2>
<form id="registrationForm">
  <label for="fullName">Full Name:</label>
  <input type="text" id="fullName" name="fullName"><br><br>

  <label for="email">Email:</label>
  <input type="text" id="email" name="email"><br><br>

  <label for="phone">Phone:</label>
  <input type="text" id="phone" name="phone"><br><br>

  <label for="event">Select Event:</label>
  <select id="event" name="event">
    <option value="event1">Event 1</option>
    <option value="event2">Event 2</option>
    <option value="event3">Event 3</option>
  </select><br><br>

  <label for="terms">Agree to Terms:</label>
  <input type="checkbox" id="terms" name="terms"><br><br>

  <button type="submit">Register</button>
</form>
<script src="validation.js"></script>
</body>
</html>
```


Validation.js

```
document.getElementById('loginForm').addEventListener('submit', function(event) {  
    event.preventDefault();  
    validateLoginForm();  
});
```

```
document.getElementById('registrationForm').addEventListener('submit', function(event) {  
    event.preventDefault();  
    validateRegistrationForm();  
});
```

```
function validateLoginForm() {  
    var username = document.getElementById('username').value;  
    var password = document.getElementById('password').value;  
  
    if (!username.trim()) {  
        alert("Please enter a username.");  
        return;  
    }  
  
    if (!password.trim()) {  
        alert("Please enter a password.");  
        return;  
    }  
  
    // Other validations for username and password  
    // You can add more validations as needed  
}
```

```
function validateRegistrationForm() {  
    var fullName = document.getElementById('fullName').value;  
    var email = document.getElementById('email').value;  
    var phone = document.getElementById('phone').value;  
    var event = document.getElementById('event').value;  
    var terms = document.getElementById('terms').checked;  
  
    if (!fullName.trim()) {  
        alert("Please enter your full name.");  
        return;  
    }  
}
```

```
if (!email.trim()) {
    alert("Please enter your email.");
    return;
}

// Email validation using regular expression
var emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
if (!emailRegex.test(email)) {
    alert("Please enter a valid email address.");
    return;
}

// Phone validation using regular expression
var phoneRegex = /^\d{10}$/;
if (!phoneRegex.test(phone)) {
    alert("Please enter a valid phone number.");
    return;
}

if (!event) {
    alert("Please select an event.");
    return;
}

if (!terms) {
    alert("Please agree to the terms.");
    return;
}

// Form is valid, you can submit it
}
```

Styles.css

```
/* styles.css */

/* Global Styles */
body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
}

h2 {
    text-align: center;
}

form {
    max-width: 400px;
    margin: 0 auto;
    padding: 20px;
    border: 1px solid #ccc;
    border-radius: 5px;
    background-color: #f9f9f9;
}

label {
    display: block;
    margin-bottom: 5px;
}

input[type="text"],
input[type="password"],
input[type="checkbox"],
select {
    width: 100%;
    padding: 10px;
    margin-bottom: 10px;
    border: 1px solid #ccc;
    border-radius: 5px;
    box-sizing: border-box;
}

button[type="submit"] {
```

```
width: 100%;
padding: 10px;
background-color: #4caf50;
color: white;
border: none;
border-radius: 5px;
cursor: pointer;
}

button[type="submit"]:hover {
  background-color: #45a049;
}

/* Additional Styles for Checkbox */
input[type="checkbox"] {
  width: auto;
  margin-bottom: 20px;
}

/* Additional Styles for Links */
a {
  display: block;
  text-align: center;
  margin-top: 20px;
  text-decoration: none;
  color: #4caf50;
}

a:hover {
  text-decoration: underline;
  color: #45a049;
}
```

Output Screenshot

Welcome to Event Management Website

Login

Event Registration



Login

Username:

Password:

Login



Event Registration

Full Name:

Email:

Phone:

Select Event:

Agree to Terms:

☐

Register

