```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Number System Converter</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background: #1e1e2f;
      color: #f0f0f0;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      margin: 0;
    }
    .converter {
      background: #2c2c3c;
      padding: 30px;
      border-radius: 10px;
      box-shadow: 0 0 20px rgba(0, 0, 0, 0.4);
      width: 320px;
      text-align: center;
    }
    h1 {
      margin-bottom: 20px;
      color: #00ffff;
    }
```

```css
input, select, button {
  width: 90%;
  padding: 10px;
  margin: 10px 0;
  border: none;
  border-radius: 5px;
  font-size: 16px;
}
input, select {
  background: #3c3c4f;
  color: white;
}
button {
  background: #00bcd4;
  color: white;
  cursor: pointer;
  transition: 0.3s;
}
button:hover {
  background: #0097a7;
}
.output {
  margin-top: 15px;
  padding: 10px;
  background: #3c3c4f;
  border-radius: 5px;
  font-size: 18px;
  word-wrap: break-word;
}
```

```html
    </style>
  </head>
  <body>

    <div class="converter">
      <h1>Number Converter</h1>

      <input type="text" id="inputValue" placeholder="Enter a number">

      <div>
        <label>From:</label>
        <select id="fromBase">
          <option value="2">Binary</option>
          <option value="8">Octal</option>
          <option value="10" selected>Decimal</option>
          <option value="16">Hexadecimal</option>
        </select>
      </div>

      <div>
        <label>To:</label>
        <select id="toBase">
          <option value="2">Binary</option>
          <option value="8">Octal</option>
          <option value="10" selected>Decimal</option>
          <option value="16">Hexadecimal</option>
        </select>
      </div>
```

```html
  <button onclick="convertNumber()">Convert</button>

  <div class="output" id="result">Result will appear here</div>
</div>

<script>
  function convertNumber() {
    const inputValue = document.getElementById("inputValue").value.trim();
    const fromBase = parseInt(document.getElementById("fromBase").value);
    const toBase = parseInt(document.getElementById("toBase").value);
    const resultDiv = document.getElementById("result");

    if (inputValue === "") {
      resultDiv.textContent = "Please enter a value.";
      return;
    }

    try {
      // Convert from input base to decimal
      const decimalValue = parseInt(inputValue, fromBase);
      if (isNaN(decimalValue)) throw new Error();

      // Convert from decimal to output base
      const convertedValue = decimalValue.toString(toBase).toUpperCase();
      resultDiv.textContent = ${inputValue} (base ${fromBase}) = ${convertedValue} (base ${toBase});
    } catch {
      resultDiv.textContent = "Invalid input for the selected base!";
    }
  }
```

```
    </script>


</body>
</html>
```