

HCI - Lab

Submitted By:

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Code:

- Html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Student Grade Form</title>
  <link rel="stylesheet" href="style.css">
</head>
<body id="body">

  <h1>🎓 Student Grade Form</h1>

  <!-- Dark/Light Mode Toggle -->
  <button id="themeBtn">🌙 Dark Mode</button>

  <div class="form-container">
    <div class="card">
      <label for="name">Name:</label>
      <input type="text" id="name" placeholder="Enter Name">
      <small class="error" id="nameError"></small>
    </div>

    <div class="card">
      <label for="age">Age:</label>
      <input type="number" id="age" placeholder="Enter Age">
      <small class="error" id="ageError"></small>
    </div>

    <div class="card">
      <label for="marks">Marks:</label>
      <input type="number" id="marks" placeholder="Enter Marks (0-100)">
      <small class="error" id="marksError"></small>
    </div>

    <button id="submitBtn">Submit</button>
  </div>
  <div id="output">
    <h2>📋 Result</h2>
```

```

<p id="result-text">Enter details and click submit!</p>
</div>

<div id="result">
  <h2>✿ Top Students (Grade higher than A)</h2>
  <ul id="studentList"></ul>
</div>

<script src="script.js"></script>
</body>
</html>

```

- CSS

```

/* General body styles */
body {
  font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
  text-align: center;
  background-color: #f5f5f5; /* neutral light background */
  color: #333; /* neutral text */
  margin: 0;
  padding: 20px;
  transition: background-color 0.3s, color 0.3s;
}

/* Headings */
h1, h2 {
  font-weight: 600;
  margin-bottom: 20px;
  color: #36d4ba; /* subtle aqua accent */
}

/* Theme toggle button */
#themeBtn {
  padding: 10px 20px;
  font-size: 16px;
  border: 2px solid #00acc1; /* subtle aqua border */
  border-radius: 25px;
  cursor: pointer;
  margin-bottom: 25px;
  background-color: transparent; /* minimal */
}

```

```
    color: #00acc1;
    transition: all 0.3s ease;
}

#themeBtn:hover {
    background-color: #00acc1;
    color: #fff;
}

/* Form container */
.form-container {
    display: flex;
    justify-content: center;
    flex-wrap: wrap;
    gap: 20px;
    margin-bottom: 30px;
}

/* Card styles */
.card {
    background-color: #fff; /* neutral card */
    padding: 20px 25px;
    border-radius: 12px;
    min-width: 220px;
    border: 2px solid #00acc1; /* subtle aqua accent */
    box-shadow: 0 4px 10px rgba(0,0,0,0.1);
    transition: all 0.3s ease;
}

.card:hover {
    transform: translateY(-3px);
    box-shadow: 0 6px 15px rgba(0,0,0,0.15);
}

/* Input styles */
input {
    width: 100%;
    padding: 10px;
    margin-top: 8px;
    border-radius: 8px;
    border: 1px solid #ccc; /* neutral border */
    font-size: 16px;
    transition: all 0.3s ease;
```

```
}

input:focus {
  outline: none;
  border-color: #00acc1; /* subtle aqua accent */
  box-shadow: 0 0 5px rgba(0,172,193,0.5);
}

/* Submit button */
button#submitBtn {
  background-color: #00acc1; /* subtle aqua */
  color: #fff;
  padding: 12px 25px;
  font-size: 16px;
  border-radius: 25px;
  border: none;
  cursor: pointer;
  transition: all 0.3s ease;
}

button#submitBtn:hover {
  background-color: #0097a7;
}

/* Error messages */
.error {
  color: #e53935;
  font-size: 12px;
  margin-top: 5px;
  display: block;
}

/* Result section */
#output, #result {
  margin-top: 25px;
}

#studentList {
  list-style: none;
  padding: 0;
  margin-top: 15px;
}
```

```
/* Pass/Fail styles */
.pass {
  color: #00796b; /* subtle teal green */
  font-weight: 600;
}

.fail {
  color: #c62828; /* red for fail */
  font-weight: 600;
}

/* Dark Mode */
body.dark-mode {
  background-color: #333; /* dark neutral */
  color: #e0f7fa; /* subtle aqua text */
}

body.dark-mode .card {
  background-color: #444; /* dark card */
  border-color: #00acc1; /* subtle aqua accent */
  color: #e0f7fa;
}

body.dark-mode input {
  background-color: #555;
  color: #e0f7fa;
  border: 1px solid #00acc1;
}

body.dark-mode button#themeBtn {
  background-color: transparent;
  color: #00acc1;
}

/* Responsive design */
@media (max-width: 768px) {
  .form-container {
    flex-direction: column;
    align-items: center;
  }

  .card {
    min-width: 90%;
```

```
    }  
}
```

- JS

```
// Form submission code remains the same as before  
document.getElementById('submitBtn').addEventListener('click', function()  
{  
    const name = document.getElementById('name').value.trim();  
    const age = parseInt(document.getElementById('age').value);  
    const marks = parseInt(document.getElementById('marks').value);  
  
    const nameError = document.getElementById('nameError');  
    const ageError = document.getElementById('ageError');  
    const marksError = document.getElementById('marksError');  
    const resultText = document.getElementById('result-text');  
  
    nameError.textContent = '';  
    ageError.textContent = '';  
    marksError.textContent = '';  
  
    let valid = true;  
  
    if(!name || !/^[a-zA-Z\s]{2,}$/.test(name)) {  
        nameError.textContent = 'Name must contain only letters and at least 2  
        characters.';  
        valid = false;  
    }  
    if(isNaN(age) || age < 5 || age > 100) {  
        ageError.textContent = 'Age must be a number between 5 and 100.';  
        valid = false;  
    }  
    if(isNaN(marks) || marks < 0 || marks > 100) {  
        marksError.textContent = 'Marks must be a number between 0 and 100.';  
        valid = false;  
    }  
    if(!valid) return;
```

```

const grade = calculateGrade(marks);
const status = marks >= 50 ? "Pass ✅" : "Fail ❌";

resultText.innerHTML =
  `${name}</strong> (Age: ${age})<br>
  Marks: ${marks}<br>
  Grade: <strong>${grade}</strong><br>
  Status: <span class="${marks >= 50 ? 'pass' :
  'fail'}">${status}</span>
`;

if(grade === 'A+') {
  const li = document.createElement('li');
  li.innerHTML = `${name} (Age: ${age}) - Marks: ${marks}, Grade:
<strong>${grade}</strong>`;
  document.getElementById('studentList').appendChild(li);
}

document.getElementById('name').value = '';
document.getElementById('age').value = '';
document.getElementById('marks').value = '';
});

function calculateGrade(marks) {
  if(marks >= 90) return 'A+ : 🌟 Excellent(Elon Musk)';
  if(marks >= 80) return 'A : 😊 Very Good';
  if(marks >= 70) return 'B : 😃 Not Bad(Welp)';
  if(marks >= 60) return 'C : 😐 Could have tried Harder';
  if(marks >= 50) return 'D : 😞 (Next Time HB) Below Average';
  return 'F : 🙄 Fail (Skill Issue)';
}

// Dark/Light mode toggle
const themeBtn = document.getElementById('themeBtn');
themeBtn.addEventListener('click', () => {
  document.body.classList.toggle('dark-mode');
  if(document.body.classList.contains('dark-mode')) {
    themeBtn.textContent = '🌙 Light Mode';
  } else {
    themeBtn.textContent = '🌙 Dark Mode';
  }
});

```

- PICTURE

Student Grade Form

 Light Mode

Name: Enter Name	Age: Enter Age	Marks: Enter Marks (0–100)	Submit
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Result

Enter details and click submit!

 Top Students (Grade higher than A)