

UCS1601---Internet Programming

Assignment – 2

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CSE-C

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Code:

HTML File

```
<!DOCTYPE html>
<html>

<head>
  <meta charset="utf-8">
  <title>
    Grade Calculator
  </title>
  <!-- FONT AWESOME ICONS -->
  <script src="https://kit.fontawesome.com/08d11cd3e5.js" crossorigin="anonymouse"></script>
  <!-- FONT LINKS -->
  <link rel="preconnect" href="https://fonts.gstatic.com">
  <link href="https://fonts.googleapis.com/css2?family=Bree+Serif&family=Pacifico&display=swap" rel="stylesheet">
  <!-- CSS FILE -->
  <link href="Index.css" rel="stylesheet">
</head>

<body>
  <section id="getDetails">
    <div>
      <div id="signInDetails">
        <h1><strong> Grade Calculator </strong></h1>
        <form class="formStyling" id="form">

          <div id=1 class="form-group rowStyling disappear">
            <h2>
              <label for="email"> Name</label>
            </h2>
          </div>
        </form>
      </div>
    </div>
  </section>
</body>
</html>
```

```

        <input type="text" name="name" class="form-
control fieldStyling" id="name1">
        <label for="marks"> Marks </label>
        <input type="number" name="marks" class="form-
control fieldStyling shrink" id="mark1">
    </h2>
</div>

    <div id=2 class="form-group rowStyling disappear">
        <h2>
            <label for="email"> Name</label>
            <input type="text" name="name" class="form-
control fieldStyling" id="name2">
            <label for="marks"> Marks </label>
            <input type="number" name="marks" class="form-
control fieldStyling shrink" id="mark2">
            <i id="b1" class="fas fa-
trash icon" onclick="removeField(this);"></i>
        </h2>
    </div>

    <div id=3 class="form-group rowStyling disappear">
        <h2>
            <label for="email"> Name</label>
            <input type="text" name="name" class="form-
control fieldStyling" id="name3">
            <label for="marks"> Marks </label>
            <input type="number" name="marks" class="form-
control fieldStyling shrink" id="mark3">
            <i id="b2" class="fas fa-
trash icon" onclick="removeField(this);"></i>
        </h2>
    </div>

    <div id=4 class="form-group rowStyling disappear">
        <h2>
            <label for="email"> Name</label>
            <input type="text" name="name" class="form-
control fieldStyling" id="name4">
            <label for="marks"> Marks </label>
            <input type="number" name="marks" class="form-
control fieldStyling shrink" id="mark4">
            <i id="b3" class="fas fa-
trash icon" onclick="removeField(this);"></i>
        </h2>
    </div>

    <div id=5 class="form-group rowStyling disappear">

```

```

        <h2>
            <label for="email"> Name</label>
            <input type="text" name="name" class="form-
control fieldStyling" id="name5">
            <label for="marks"> Marks </label>
            <input type="number" name="marks" class="form-
control fieldStyling shrink" id="mark5">
            <i id="b4" class="fas fa-
trash icon" onclick="removeField(this);"></i>
        </h2>
    </div>

    <br>
    <button id="addStudent" name="addStudent" class="button" o
nclick="add()"> Add Student </button>
    <button id="submit" name="submit" class="button" onclick="
displayTable()"> Submit </button>
</form>
</div>
</div>
<div id="gradeTable" class="disappear">

    <table>
        <tr>
            <th id="titleName"><strong> NAME </strong></th>
            <td id="titleMark"><strong> GRADE </strong></td>
        </tr>
        <tr id="student1" class="disappear">
            <th id="tableName1"></th>
            <td id="grade1"></td>
        </tr>
        <tr id="student2" class="disappear">
            <th id="tableName2"></th>
            <td id="grade2"></td>
        </tr>
        <tr id="student3" class="disappear">
            <th id="tableName3"></th>
            <td id="grade3"></td>
        </tr>
        <tr id="student4" class="disappear">
            <th id="tableName4"></th>
            <td id="grade4"></td>
        </tr>
        <tr id="student5" class="disappear">
            <th id="tableName5"></th>
            <td id="grade5"></td>
        </tr>
    </table>

```

```

        <br>
        <button id="exitButton" class="button" onclick="exit()"> Exit </button>
    </div>
</section>
<script src="Index.js"></script>
</body>

</html>

```

CSS File

```

body {
    background-image: url("Welcome.jpg");
    background-size: cover;
    background-repeat: no-repeat;
    font-family: "Bree Serif", serif;
    text-align: center;
}

h1 {
    font-size: 3.5rem;
    font-family: "Pacifico", cursive;
    line-height: 2;
    margin-block-start: 0;
    margin-block-end: 25px;
}

table,
th,
td {
    border: 1px solid #071c24;
    margin-left: auto;
    margin-right: auto;
    text-align: left;
    padding: 10px 20px;
    font-weight: normal;
    font-size: 1.5rem;
    background-color: #aacfd0;
}

table {
    background-color: #071c24;
    border-width: thick;
    padding: unset;
}

```

```
td {
  text-align: center;
}

#titleName,
#titleMark {
  background-color: #79a8a9;
}

#getDetails {
  display: inline-block;
  position: fixed;
  top: 0;
  bottom: 0;
  left: 0;
  right: 0;
  margin: auto;
  background-color: #30475ed0;
  width: 80%;
  height: 300px;
  vertical-align: middle;
}

.icon {
  padding: 5px;
  position: absolute;
  left: 850px;
}

.icon:hover {
  color: #dc3545;
}

.rowStyling {
  margin: 10px;
  line-height: 1;
}

.fieldStyling {
  margin-left: 20px;
  margin-right: 20px;
  vertical-align: middle;
  padding: 2px, 10px, 2px, 5px;
  font-family: "Bree Serif", serif;
  font-size: 1.2rem;
}
```

```

.shrink {
  width: 70px;
}

.disappear {
  display: none;
}

.hide {
  visibility: hidden;
}

.button {
  padding: 7px;
  margin-left: 20px;
  margin-right: 20px;
  border-radius: 5px;
  border-width: 5px;
  border-style: unset;
  background-color: #3282b8;
  color: wheat;
  font-weight: 400px;
  font-family: "Bree Serif", serif;
  font-size: 1.2rem;
}

.button:hover {
  background-color: #0f4c75;
}

```

JS FILE

```

var studentCount = 0;
var rowcount = 1;
var sectionheight = 300;

function add()
{
  var person = prompt("Add Student Name");
  var mark = prompt("Add Student Marks");
  studentCount++;
  sectionheight += 50;
  event.preventDefault();
  document.getElementById(studentCount).classList.remove("disappear");
  document.getElementById("name"+studentCount).value = person;
  document.getElementById("mark"+studentCount).value = mark;
}

```

```

document
    .getElementById("student" + studentCount)
    .classList.remove("disappear");
getDetails.style.height = sectionheight + "px";
if (studentCount === 5)
{
    document.getElementById("addStudent").classList.add("disappear");
}
}

function removeField(element)
{
    var id = Number(element.id[1]) + 1;
    for (i = id; i < studentCount; i++)
    {
        document.getElementById("name" + i).value = document.getElementById(
            "name" + (i + 1)
        ).value;
        document.getElementById("mark" + i).value = document.getElementById(
            "mark" + (i + 1)
        ).value;
    }
    document.getElementById("name" + studentCount).value = "";
    document.getElementById("mark" + studentCount).value = "";
    document.getElementById(studentCount).classList.add("disappear");
    document.getElementById("student" + studentCount).classList.add("disappear")
;
    sectionheight -= 50;
    getDetails.style.height = sectionheight + "px";
    if (studentCount === 5)
    {
        document.getElementById("addStudent").classList.remove("disappear");
    }
    studentCount--;
}

function calculateGrade(mark)
{
    if (mark > 90)
    {
        return "A";
    }
    else if (mark > 80 && mark <= 90)
    {
        return "B";
    }
    else if (mark > 70 && mark <= 80)
    {

```

```

        return "C";
    }
    else if (mark > 60 && mark <= 70)
    {
        return "D";
    }
    else if (mark > 50 && mark <= 60)
    {
        return "E";
    }
    else
    {
        return "F";
    }
}

function displayTable()
{
    var alertcheck = 0;
    event.preventDefault();
    for (i = 1; i <= studentCount; i++)
    {
        var name = document.getElementById("name" + i).value;
        var mark = document.getElementById("mark" + i).value;
        if (name == "")
        {
            alertcheck = 1;
            alert("Please enter a name first!");
        }
        if (mark < 0 || mark > 100 || mark == "")
        {
            alertcheck = 1;
            alert("Marks should be between 0 and 100 .");
        }
        if (alertcheck == 1)
        {
            break;
        }
    }
    if (!alertcheck)
    {
        document.getElementById("form").classList.add("disappear");
        document.getElementById("gradeTable").classList.remove("disappear");
        getDetails.style.height = sectionheight + 70 + "px";
        for (i = 1; i <= studentCount; i++)
        {
            var name = document.getElementById("name" + i).value;

```

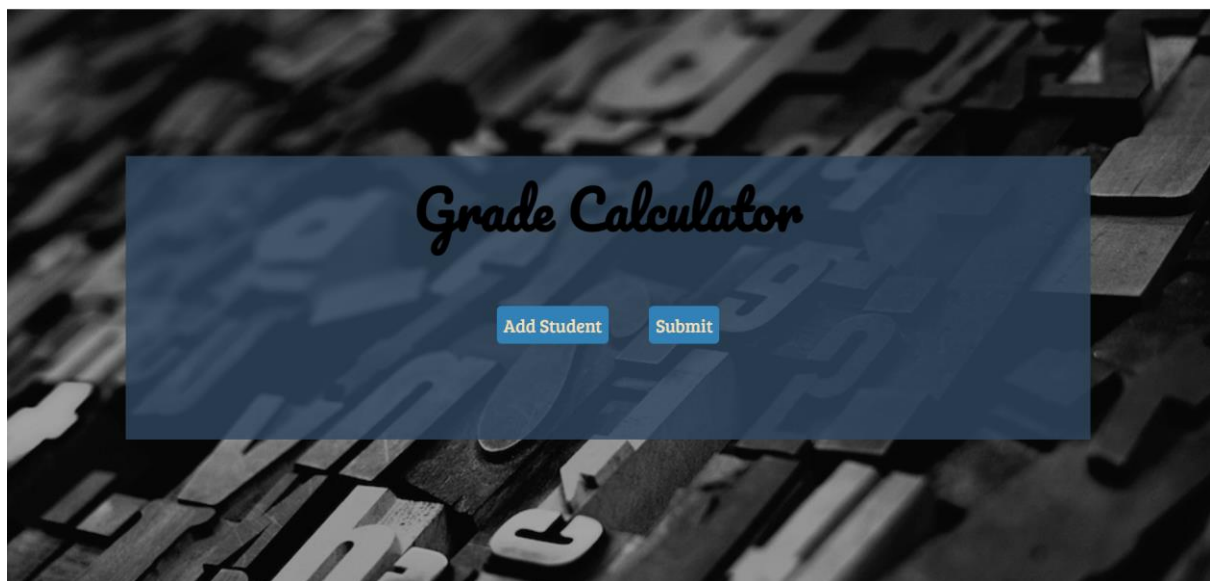


```
        var grade = calculateGrade(document.getElementById("mark" + i).value);
        document.getElementById("tableName" + i).innerHTML = name;
        document.getElementById("grade" + i).innerHTML = grade;
    }
}
}

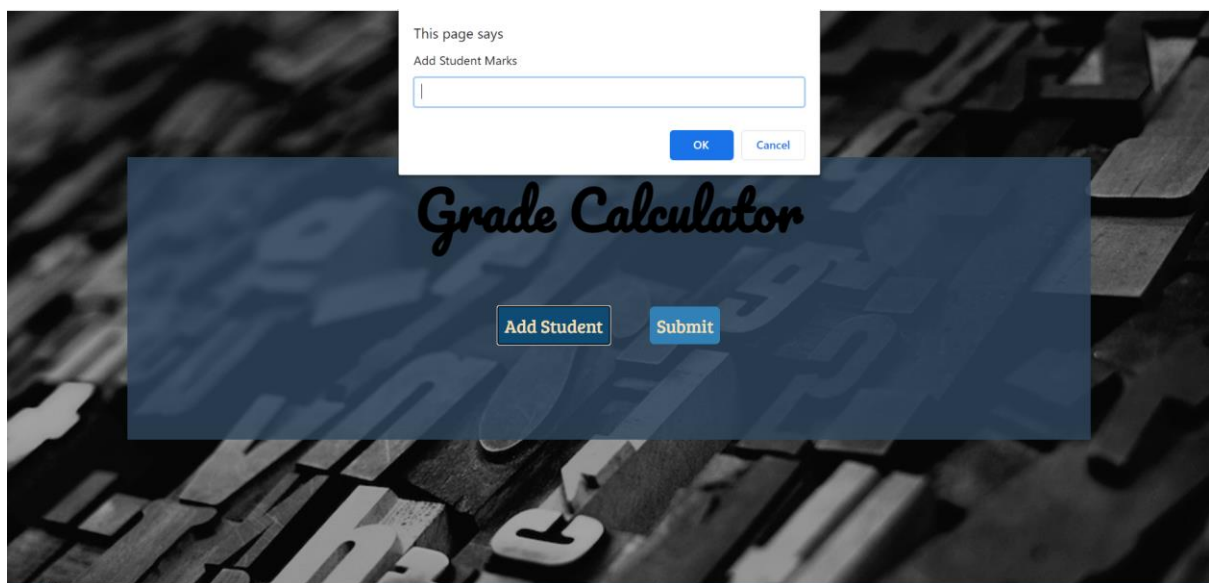
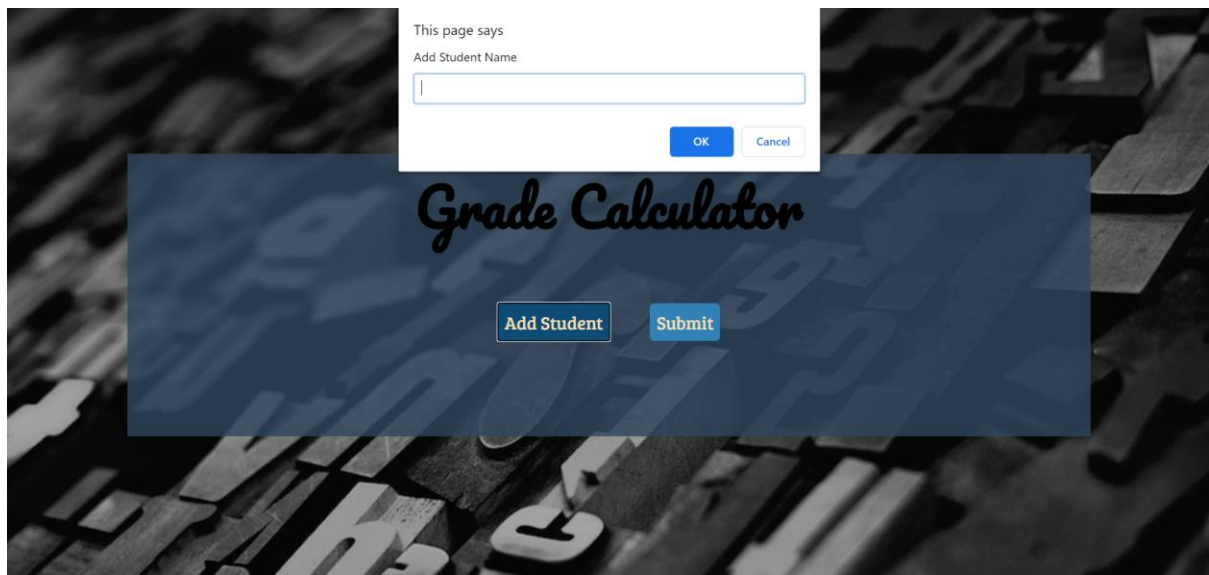
function exit()
{
    location.reload();
}
```

Outputs:


Home Page



Input Data through alert prompt



Add up-to 5 students (remove using the bin icon and edit in the textbox)

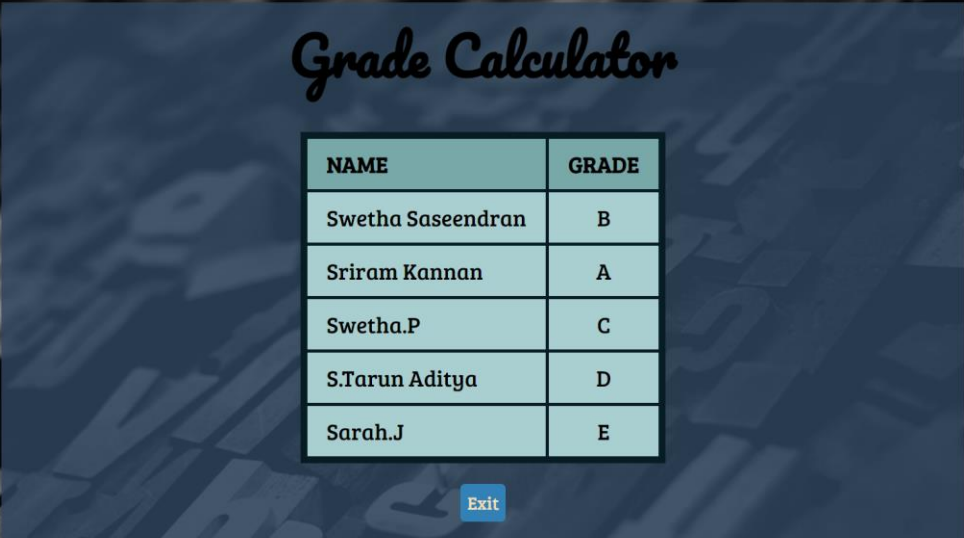


The image shows a web form titled "Grade Calculator" on a dark blue background. It contains five rows of input fields for student names and marks. Each row has a "Name" label, a text input box, a "Marks" label, a numeric input box, and a trash bin icon to the right. The data entered is as follows:

Name	Marks
Swetha Saseendran	85
Sriram Kannan	100
Swetha.P	75
S.Tarun Aditya	65
Sarah.J	55

At the bottom center of the form is a blue "Submit" button.

Table appears in clicking the submit button



The image shows the same "Grade Calculator" form after the "Submit" button has been clicked. The form fields are now disabled, and a table with the calculated grades is displayed in the center. The table has two columns: "NAME" and "GRADE". The data is as follows:

NAME	GRADE
Swetha Saseendran	B
Sriram Kannan	A
Swetha.P	C
S.Tarun Aditya	D
Sarah.J	E

At the bottom center of the form is a blue "Exit" button.

Alert if the name textbox is not filled.

This page says
Please enter a name first!

Grade Calculator

Name Marks

The screenshot shows a web form titled "Grade Calculator" on a dark blue background with a keyboard texture. The form has two input fields: "Name" and "Marks". The "Marks" field contains the value "78". Below the fields are two buttons: "Add Student" and "Submit". A white alert box is displayed at the top, stating "This page says: Please enter a name first!" with an "OK" button.

Alert if the marks textbox is not filled or out of range.

This page says
Marks should be between 0 and 100 .

Grade Calculator

Name Marks

The screenshot shows the same "Grade Calculator" form. The "Name" field now contains "Swetha Saseendran" and the "Marks" field contains "178". A white alert box is displayed at the top, stating "This page says: Marks should be between 0 and 100 ." with an "OK" button.

This page says
Marks should be between 0 and 100 .

Grade Calculator

Name Marks

The screenshot shows the same "Grade Calculator" form. The "Name" field contains "Swetha Saseendran" and the "Marks" field is empty. A white alert box is displayed at the top, stating "This page says: Marks should be between 0 and 100 ." with an "OK" button.