WEEK-4 TYPE THE CODE

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Building Material Inventory Management System</title>
  <link rel="stylesheet" href="./style.css">
</head>
<body>


  <div class="formdiv">
  <h3 >Building Material Inventory</h3>
  <form>

    <label for="materialName">Material Name:</label>
    <input  type="text" id="materialName" placeholder="Enter material name" >
    <label for="category">Material Category:</label>
    <select id="category">
      <option value="Wood">Wood</option>
      <option value="Cement">Cement</option>
      <option value="Steel">Steel</option>
      <option value="Bricks">Bricks</option>
      <option value="Glass">Glass</option>
    </select>
    <label for="quantity">Quantity</label>
    <input id="quantity" type="number" placeholder="Enter quantity">
    <label for="supplierName">Supplier Name:</label>
    <input id="supplierName" placeholder="Enter supplier name" type="text">
    <label for="costPerUnit">Cost Per Unit(RS):</label>
    <input id="costPerUnit" type="number" placeholder="Enter cost per unit">
    <button type="button" id="addMaterialBtn">Submit Material</button>
    <span id="error-message"></span>
  </form>

</div>

<section>
  <table id="materialTable">
    <caption>Material List:</caption>
    <thead id="headerRow">
```

```html
      <tr>
        <th>Material Name</th>
        <th>Category</th>
        <th>Quantity</th>
        <th>Supplier</th>
        <th>Cost Per Unit (RS)</th>

      </tr>
    </thead>
    <tbody>

    </tbody>


  </table>

</section>

  <div class="summary">
    <h3>Inventory Summary:</h3>
    <h3>Total Products: <span id="totalProducts">0</span></h3>
    <h3>Most Expensive Product: <span id="mostExpensive">None</span></h3>

  </div>


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

```css
form{
    display: flex;
    width:60%;

    justify-content: center;
    flex-direction: column;
}

.formdiv{
    display: flex;
  align-items: center;
    justify-content: center;
    flex-direction: column;

}

input{
    margin-bottom: 1%;
}

select{
    margin-bottom: 1%;
}

#addMaterialBtn{
    background-color: rgb(76,175,80);
    padding: 1%;
    color:rgb(255,255,255);
    font-size: large;
    font-weight: bold;

}

thead{
    background-color: rgb(76,175,80);
}

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

```css
    }

#error-message{
    opacity:0;
    color:red;
    text-align: center;
    font-weight: bold;
}

.headerTxt{
    text-align: center;
}
#materialTable{
    margin-top: 2%;
    margin-left: 20%;
    width:60%

}

#headerRow{
    background-color: rgb(76,175,80);
    color:rgb(255,255,255);

}

#headerRow th{
    text-align: center;

    padding: 1%;
}

caption{
    font-weight: bold;
    font-size: large;

}

.trow{
    text-align: center;
}

label{
    font-weight: bold;
    font-size: large;}
```

```javascript
document.getElementById("addMaterialBtn").addEventListener("click",()=>{

    const name=document.getElementById("materialName").value.trim();
    const qty=document.getElementById("quantity").value.trim();
    const sn=document.getElementById("supplierName").value.trim();
    const cpi=document.getElementById("costPerUnit").value.trim();
    const errMsg=document.getElementById("error-message");
    const cat=document.getElementById("category");
    const catVal=cat.options[cat.selectedIndex].text;


    if(!name || !catVal || !sn || !cpi || !qty){
        errMsg.textContent="Please fill out all fields!";
        errMsg.style.opacity=1;
        return;
    }

    else{
        errMsg.style.opacity=0;
        const table=document.getElementById("materialTable");
        const tbody=document.querySelector("#materialTable tbody");
        const trow=document.createElement("tr");
        const tp=document.getElementById("totalProducts");
        const eItem=document.getElementById("mostExpensive");
        let arr=[name,catVal,qty,sn,cpi];

        for(let i=0;i<5;i++){
            let tdata=document.createElement("td");
            if(i==4){
                let c=parseFloat(arr[i]).toFixed(2);
                tdata.textContent=`RS ${c}`;
            }
            else{
                tdata.textContent=arr[i];
            }

            trow.appendChild(tdata);
        }

        trow.classList.add("trow");
        tbody.appendChild(trow);

        let n=table.rows.length-1;
```

```
        tp.textContent=n;
        const data=getTableData(tbody);
        eItem.textContent=`${data.name} (R S ${data.cost})`;
        document.getElementsByTagName("form")[0].reset();
    }




})


const getTableData=(tbody)=>{
    let mc=0;
    let ei="";
    for(let row of tbody.rows){
        const name=row.cells[0].textContent.trim();
        const txt=row.cells[4].textContent.trim();
        const cost=parseFloat(txt.replace(/[^\d.]/g,"")).toFixed(2);
        if(cost>mc){
            mc=cost;
            ei=name;
        }

    }

    return {name:ei,cost:mc}
}
```

WEEK 4-PRACTICE AT HOME-1

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Habit Tracker</title>
  <link rel="stylesheet" href="./style.css">

</head>
<body>
  <div class="main-cont">
    <form>
      <h1>Habit Tracker</h1>
      <div class="formdiv">
        <input type="checkbox" id="chkWater">
        <label for="chWater">Drink Water</label>
      </div>

      <div class="formdiv">
        <input type="checkbox" id="chkExercise">
        <label for="chkExercise">Exercise</label>
      </div>

      <div class="formdiv">
        <input type="checkbox" id="chkReading">
        <label for="chkReading">Read a book</label>
      </div>


      <div class="btnDiv">
        <button id="mark-progress" type="button">Mark Progress</button>
        <button id="reset-progress" type="button">Reset</button>
      </div>

    </form>

    <p id="summary">You have completed <span id="count">0</span> habits today.</p>
  </div>
  <script src="./script.js"></script>
</body>
</html>
```

```css
.main-cont{
    width:50%;

    background-color: whitesmoke;
    border:2px solid  white;
    border-radius: 1rem;
    margin-left: 30%;

}
form{
    display: flex;
     margin-left:36%;
    justify-content: center;
    flex-direction: column;

}

.btnDiv{
    display: flex;
    align-items: center;


}

#mark-progress{
    background-color: rgb(41,168,71);
    margin-right: 2%;
}
#reset-progress{
    background-color: red;
}

button{
    margin-top: 2%;
    color:white;
    padding: 2%;
}

p{

   margin-left: 34%;
}
.formdiv{
    margin-bottom: 1%;}
```

```javascript
document.getElementById("mark-progress").addEventListener("click",()=>{

    const dw=document.getElementById("chkWater");
    const de=document.getElementById("chkExercise");
    const rb=document.getElementById("chkReading");
    const sumTxt=document.getElementById("count");
    let n=0;

    if(dw.checked){
        n=n+1
    }
    if(de.checked){
        n=n+1
    }
    if(rb.checked){
        n=n+1
    }

    sumTxt.textContent=n;



})



document.getElementById("reset-progress").addEventListener("click",()=>{
    document.getElementsByTagName("form")[0].reset();
    const sumTxt=document.getElementById("count");
    let n=0;
    sumTxt.textContent=n;

})
```

WEEK-4 PRACTICE AT HOME -2

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="./styles.css">
  <title>Multiplication Table Generator</title>
</head>
<body>
  <div class="mulClass">
    <h3>Multiplication Table Generator</h3>
    <label for="number">Enter a number:</label>
    <input id="number" type="number" placeholder="Enter a number">
    <label for="start">Start Value:</label>
    <input id="start" type="number" placeholder="Start of range">
    <label for="end">End Value:</label>
    <input id="end" type="number"  placeholder="End of range">
    <button type="button" id="generateBtn">Generate Table</button>

    <span id="errormessage">All fields are required!</span>
    <div id="table">

    </div>

  </div>
  <script src="./script.js"></script>

</body>
</html>
```

```css
body{
    display: flex;
    align-items: center;
    justify-content: center;
}


.mulClass{
    display: flex;
    flex-direction: column;
    background-color: white;
    box-shadow: 2px 2px 2px rgb(224, 220, 220);
    border-radius: 1rem;
    width:40%;
    padding: 2%;
    min-height: fit-content;
}

#generateBtn{
    background-color: rgb(77,176,80);
    color: rgb(255,255,255);
    padding: 1%;
}

input{
    margin-bottom: 2%;
    padding: 1%;
}

label{
    font-weight: bold;
}

#table{
    display: flex;
    flex-direction: column;
}
```

```css
#errormessage{
    color:red;
    opacity:0;
    text-align: center;
}
```

```javascript
document.getElementById("generateBtn").addEventListener("click",()=>{

    const maindiv=document.getElementsByClassName("mulClass")[0];
    const num=document.getElementById("number").value.trim();
    const start=document.getElementById("start").value.trim();
    const end=document.getElementById("end").value.trim();
    const errtxt=document.getElementById("errormessage");

    if(!num || !start || !end){
        errtxt.style.opacity=1;
        return;

    }
    else{
        errtxt.style.opacity=0;
        let i=parseInt(start);
        let j=parseInt(end);
        let n=parseInt(num);
        const tdiv=document.getElementById("table");
        tdiv.innerHTML="";
        const ptxt=document.createElement("p");
        ptxt.textContent=`Multiplication Table of ${n}`;
        ptxt.style.fontWeight="bold";
        tdiv.appendChild(ptxt);
        for(let k=i;k<=j;k++){
            let mele=document.createElement("p");
            let res=n*k;
            mele.textContent=`${n} x ${k} = ${res}`;
            tdiv.appendChild(mele);

        }



    }

})
```

WEEK 4-CHALLENGE YOURSELF

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <!-- Write your code -->
    <h1>Grade Calculator</h1>
    <div>

        <span id="marksLabel">Enter your marks (0-100): </span>
        <input id="marks" type="number">
        <button type="button" id="getGradeButton">Convert</button>
        <p id="gradeResult"></p>
    </div>
    <script src="./script.js"></script>
</body>
</html>
```

```javascript
document.getElementById("getGradeButton").addEventListener("click",()=>{

    const mark=parseInt(document.getElementById("marks").value.trim());
    const result=document.getElementById("gradeResult");

    if(!mark){
        result.textContent="Enter any marks to get the grades.";
        return;
    }

    else if(!(mark>=0 && mark<=100)){
        result.textContent="The marks should be between 0-100.";
        return;
    }

    else{
        if(mark>=90){
            result.textContent=`For marks ${mark}, your grade is: A`;

        }
        else if(mark>=80 && mark<=89){
            result.textContent=`For marks ${mark}, your grade is: B`;
        }

        else if(mark>=70 && mark<=79){
            result.textContent=`For marks ${mark}, your grade is: C`;
        }

        else if(mark>=60 && mark<=69){
            result.textContent=`For marks ${mark}, your grade is: D`;
        }

        else{
            result.textContent=`For marks ${mark}, your grade is: F`;
        }

    }
})
```

WEEK-4 FIX THE CODE

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Music Album Collection Manager</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <header>
        <h3>Music Album Collection</h3>
    </header>

    <form>
        <label for="albumName">Album Name: </label>
        <input id="albumName" type="text" required placeholder="Enter album name">
        <br><br>

        <label for="releaseYear">Release Year: </label>
        <input id="releaseYear" type="number" required placeholder="Enter release year">
        <br><br>

        <label for="genre">Genre: </label>
        <select id="genre">
            <option value="">Select genre</option>
            <option value="Pop">Pop</option>
            <option value="Rock">Rock</option>
            <option value="Jazz">Jazz</option>
            <option value="Classical">Classical</option>
        </select>
        <br><br>


        <input type="checkbox" id="favorite">
        <label for="favorite">Mark as Favorite </label>
        <br><br>

        <button id="addAlbumBtn" type="button">Add Album</button>
        <span id="error-message"></span>
    </form>

    <h2>Album List:</h2>
```

```html
    <ul id="albumList"></ul>

    <h2>Favorite Albums:</h2>
    <ul id="favoriteAlbumList"></ul>

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

```css
body{
    font: 18px Arial, sans-serif;
    background: lightblue;
    padding: 10px;
}

h1 {
    font-family: 'Times New Roman';
    font-size: 40px;
}

#albumList {
    /* color: blue;  */
    background-color: lightgray;
    text-align: center;
    font-size: 14px;
}

ul {
    margin-left: 10px;
    padding-left: 20px;
    list-style-type: square;
}

input[type="text"] {
    padding: 5px 10px;
    width: 180px;
}

button {
    background-color: rgb(76,175,80);
    color: red;
    padding: 10px 20px;
    border: none;
    /* cursor: not-allowed; */
}

#error-message {
    color: #ff0000;
    font-weight: normal;
    font-size: 14px;
    display: block;
    text-align: left;
```

```css
}

#favoriteAlbumList li {
    /* color: green; */
    font-size: 12px;
    font-weight: light;
}

input[type="number"] {
    width: 120px;
    padding: 8px;
    margin-top: 5px;
    background-color: yellow;
}
```

```javascript
document.getElementById("addAlbumBtn").addEventListener("click",()=>{
    const an=document.getElementById("albumName").value.trim();
    const ry=document.getElementById("releaseYear").value.trim();
    const gl=document.getElementById("genre");
    const genre=gl.options[gl.selectedIndex].text;
    const fav=document.getElementById("favorite");
    const em=document.getElementById("error-message");

    if(!an || !ry ||!(gl.value.trim())){
        em.textContent="Please fill out all fields!";

        document.getElementsByTagName("form")[0].reset();
        return;
    }

    else if(fav.checked){
        em.textContent="";
        const favoriteAlbumList=document.getElementById("favoriteAlbumList");
        const liEle=document.createElement("li");
        // const hEle1=document.createElement("h2");
        // const hEle2=document.createElement("h2");

        liEle.innerHTML=`<strog>${an}</strong><br><em>Released: ${ry} | Genre: ${genre}
</em> `;
        // liEle.appendChild(hEle1);
        // liEle.appendChild(hEle2);
        favoriteAlbumList.appendChild(liEle);
        document.getElementsByTagName("form")[0].reset();
        return;


    }
    else {
        em.textContent="";
        em.style.opacity=0;
        const albumList=document.getElementById("albumList");
        const liEle=document.createElement("li");
        // const hEle1=document.createElement("h2");
        // const hEle2=document.createElement("h2");
        // hEle1.innerHTML=an;
        // hEle2.innerHTML=`<em>Released: </em> ${ry} | <em>Genre: </em> ${genre}`;
        liEle.innerHTML=`<strog>${an}</strong><br><em>Released: ${ry} | Genre: ${genre}
</em> `;
        // liEle.appendChild(hEle1);
```

```
        // liEle.appendChild(hEle2);
        albumList.appendChild(liEle);
        document.getElementsByTagName("form")[0].reset();
        return;


    }


})
```