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here is the short decribtion

Part1 Intro

Task 0 and **Task 1** results are printed in the browser's **Console** (Press F12). An alert will also pop up.

Part 2. DOM Manipulation

Task 2. Changing Content

This is the original paragraph text.

Change Text

Task 3. Changing Styles

This is the content inside the style container.

Change Background Color

Change Font Size

Creating & Removing

- Initial Item 1
- Initial Item 2

Add Item

Remove Last Item

Part 3. Events

Task 5. Mouse Events

Mouse Over Me

Task 6. Keyboard Events

I add the
 to show the horizontal line

Task 6. Keyboard Events

Current Input Value:

Task 7. Form Validation (Optional)

Name:

Email:

Password:

To-Do List

Task 8. Build a To-Do App

add some tasks as write in the report paper

then

```
code.html > html > body > h1
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>JavaScript Introduction & DOM Manipulation Tasks</title>
8   <script src="cod.js"></script>
9 </head>
10
11 <body>
12
13   <h1>Part1 Intro</h1>
14   <p>
15     <strong>Task 0</strong> and <strong>Task 1</strong> results are printed in the browser's <strong>Console</strong> (Press F12). An alert will also pop
16   </p>
17
18   <hr>
19
20   <h1>Part 2. DOM Manipulation</h1>
21
22   <h2>Task 2. Changing Content</h2>
23   <p id="content-paragraph">This is the original paragraph text.</p>
24   <button id="change-text-btn">Change Text</button>
25
26   <hr>
27
28   <h2>Task 3. Changing Styles</h2>
29   <div id="style-container">
30     <p>This is the content inside the style container.</p>
31   </div>
32   <button id="change-bg-btn">Change Background Color</button>
33   <button id="change-font-btn">Change Font Size</button>
34
35   <hr>
36
37   <h2>Creating & Removing </h2>
38   <ul id="list-for-items">
39     <li>Initial Item 1</li>
40     <li>Initial Item 2</li>
41   </ul>
42   <button id="add-item-btn">Add Item</button>
43   <button id="remove-item-btn">Remove Last Item</button>
44
```

```
<div id="style-container">
  <p>This is the content inside the style container.</p>
</div>
<button id="change-bg-btn">Change Background Color</button>
<button id="change-font-btn">Change Font Size</button>

<hr>

<h2>Creating & Removing </h2>
<ul id="list-for-items">
  <li>Initial Item 1</li>
  <li>Initial Item 2</li>
</ul>
<button id="add-item-btn">Add Item</button>
<button id="remove-item-btn">Remove Last Item</button>

<hr>

<h1>Part 3. Events</h1>

<h2>Task 5. Mouse Events</h2>
<div id="colorBox">Mouse Over Me</div>

<hr>

<h2>Task 6. Keyboard Events</h2>
<input type="text" id="key-input" placeholder="Type something here">
<p>Current Input Value: <span id="output-value"></span></p>

<hr>

<h2>Task 7. Form Validation (Optional)</h2>
<form id="validation-form">
  <label for="name">Name:</label><br>
  <input type="text" id="name" name="name"><br><br>

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

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

```

<hr>

<h2>Task 7. Form Validation (Optional)</h2>
<form id="validation-form">
  <label for="name">Name:</label><br>
  <input type="text" id="name" name="name"><br><br>

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

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

  <button type="submit">Submit Form</button>
  <p id="error-message"></p>
</form>

<hr>

<h1>To-Do List</h1>

<h2>Task 8. Build a To-Do App</h2>
<input type="text" id="task-input" placeholder="New task...">
<button id="add-task-btn">Add Task</button>
<ul id="task-list">
</ul>

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

```

Here the just simple html code

and here the js code

JS codjs > ...

```
1  // task 0
2
3  console.log("Task 0: Printing Name and Group");
4  console.log("Name: [Your Name], Group: [Your Group]");
5
6  alert("Hello, JavaScript World!");
7
8  // task 1
9
10 console.log("\nTask 1: Variables & Operators");
11
12
13 let studentName = "Mia";
14 let examScore = 95;
15 const isPassing = true;
16
17
18 let finalScore = examScore + 5;
19 let remainder = 11 % 3;
20
21 console.log("Number Variable (examScore):", examScore, typeof examScore);
22 console.log("Arithmetic: Score + 5 =", finalScore);
23 console.log("Arithmetic: 11 % 3 =", remainder);
24
25 // Concatenate
26 let summary = "The student " + studentName + " achieved a score of " + finalScore + ". Is this passing? " + isPassing;
27 console.log("Concatenated String:", summary);
28
29
30
31 // Changing Content ---
32 const paragraph = document.getElementById('content-paragraph');
33 const changeTextBtn = document.getElementById('change-text-btn');
34
35 changeTextBtn.addEventListener('click', () => {
36     paragraph.textContent = "Task 2 Complete: Text updated!";
37 });
38
39 // --- Task 3. Changing Styles ---
40 const styleContainer = document.getElementById('style-container');
41 const changeBgBtn = document.getElementById('change-bg-btn');
42 const changeFontBtn = document.getElementById('change-font-btn');
43
```

```

});

// --- Task 3. Changing Styles ---
const styleContainer = document.getElementById('style-container');
const changeBgBtn = document.getElementById('change-bg-btn');
const changeFontBtn = document.getElementById('change-font-btn');

changeBgBtn.addEventListener('click', () => {
  const currentColor = styleContainer.style.backgroundColor;
  styleContainer.style.backgroundColor = currentColor === 'yellow' ? 'white' : 'yellow';
});

changeFontBtn.addEventListener('click', () => {
  const currentSize = styleContainer.style.fontSize;
  styleContainer.style.fontSize = currentSize === '20px' ? '14px' : '20px';
});

// --- Task 4. Creating & Removing Elements ---
const listForItems = document.getElementById('list-for-items');
const addItemBtn = document.getElementById('add-item-btn');
const removeItemBtn = document.getElementById('remove-item-btn');
let itemCounter = 3;

// Add Item functionality
addItemBtn.addEventListener('click', () => {
  const newItem = document.createElement('li');
  newItem.textContent = `New Item ${itemCounter}`;
  listForItems.appendChild(newItem);
  itemCounter++;
});

removeItemBtn.addEventListener('click', () => {
  if (listForItems.lastElementChild) {
    listForItems.removeChild(listForItems.lastElementChild);
  }
});

// --- Task 5. Mouse Events ---
const colorBox = document.getElementById('colorBox');

```

```
// --- Task 5. Mouse Events ---
const colorBox = document.getElementById('colorBox');
const originalColor = 'lightgray';
const hoverColor = 'red';

colorBox.addEventListener('mouseover', () => {
  colorBox.style.backgroundColor = hoverColor;
  colorBox.textContent = "Hovering!";
});

colorBox.addEventListener('mouseout', () => {
  colorBox.style.backgroundColor = originalColor;
  colorBox.textContent = "Mouse Over Me";
});

// --- Task 6. Keyboard Events ---
const keyInput = document.getElementById('key-input');
const outputValue = document.getElementById('output-value');

keyInput.addEventListener('keyup', (event) => {
  outputValue.textContent = event.target.value;
});

// --- Task 7. Form Validation (Optional) ---
const validationForm = document.getElementById('validation-form');
const errorMessage = document.getElementById('error-message');

validationForm.addEventListener('submit', (event) => {
  event.preventDefault();

  const nameField = document.getElementById('name').value.trim();
  const emailField = document.getElementById('email').value.trim();
  const passwordField = document.getElementById('password').value.trim();

  errorMessage.textContent = "";
});
```



```
// Validation logic
if (nameField === "" || emailField === "" || passwordField === "") {
  errorMessage.textContent = "Error: All fields must be filled out.";
  errorMessage.style.color = 'red';
} else {
  errorMessage.textContent = "Form validation passed.";
  errorMessage.style.color = 'green';
}
});
```

```
// --- Task 8. Build a To-Do App ---
```

```
const taskInput = document.getElementById('task-input');
const addTaskBtn = document.getElementById('add-task-btn');
const taskList = document.getElementById('task-list');
```

```
let tasks = [];
```

```
function renderTasks() {
  taskList.innerHTML = '';

  tasks.forEach((task, index) => {
    const listItem = document.createElement('li');

    const taskTextSpan = document.createElement('span');
    taskTextSpan.textContent = task.text;
    taskTextSpan.style.cursor = 'pointer';
    if (task.completed) {
      taskTextSpan.style.textDecoration = 'line-through';
    }

    taskTextSpan.addEventListener('click', () => {
      tasks[index].completed = !tasks[index].completed;
    });
  });
}
```

```

4
5 // Delete Button
6 const deleteBtn = document.createElement('button');
7 deleteBtn.textContent = 'Delete';
8
9 // Delete functionality
10 deleteBtn.addEventListener('click', () => {
11     tasks.splice(index, 1);
12     renderTasks();
13 });
14
15 listItem.appendChild(taskTextSpan);
16 listItem.appendChild(deleteBtn);
17 taskList.appendChild(listItem);
18 });
19 }
20
21 addTaskBtn.addEventListener('click', () => {
22     const taskText = taskInput.value.trim();
23
24     if (taskText !== "") {
25         tasks.push({
26             text: taskText,
27             completed: false
28         });
29         taskInput.value = '';
30         renderTasks();
31     }
32 });
33
34 renderTasks();

```

Here it is

JavaScript[®]

Notes for Professionals



information have been taking it in the here