

Assignment 5

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Assignment5.html:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Assignment 5</title>
```

```
  <script src="Assignment5.js"></script>
```

```
</head>
```

```
<style>
```

```
table, th, td {
```

```
  border: 1px solid black;
```

```
  border-collapse: collapse;
```

```
}
```

```
table {
```

```
  background: linear-gradient(135deg, #e6ffe6, #ccffcc, #b3ffb3);
```

```
  border: 1px solid #fcb69f;
```

```
  border-collapse: collapse;
```

```
  width: 100%;
```

```
  box-shadow: 2px 2px 10px rgba(144, 238, 144, 0.3);
```

```
  border-radius: 8px;
```

```
}
```

```
th, td {
```

```
  text-align: left;
```

```
padding-top: 20px;
padding-bottom: 20px;
padding-left: 30px;
padding-right: 40px;
font-size: 20px;
color: #064d1f; /* Dark green text */
}
```

```
.button1 {
background-color: #4CAF50;
color: white;
border: none;
padding: 12px 24px;
font-size: 16px;
border-radius: 10px;
box-shadow: 0 0 10px #4CAF50, 0 0 20px #66bb6a;
cursor: pointer;
transition: 0.3s ease-in-out;
}
```

```
.button1:hover {
background-color: #66bb6a;
box-shadow: 0 0 15px #66bb6a, 0 0 30px #81c784;
}
```

```
.error {
color: #cc0000;
}
```

</style>

<body>

<div>

WordPlay

Start the game by giving an input in the textbox below.

<label for="num1">Enter a number between 1 and 30:</label>

`<button id="but1" class="button1" onclick="wordplay()">Submit the input</button>`

<label for="para1">The result is:</label><p id="para1"></p>

</div>

<div>

Form Validation

<center>

```
<form id="form1">
```

Item	Price
Apple	1.20
Banana	0.80
Orange	0.50
Pineapple	2.50
Watermelon	3.00
Grapes	1.50
Mango	1.00
Peach	0.90
Cherry	2.00
Strawberry	1.80
Blueberry	2.20
Raspberry	1.60
Blackberry	1.40
Dragonfruit	2.80
Papaya	1.10
Jackfruit	1.30
Guava	0.70
Lemon	0.40
Lime	0.30
Citrus	0.60
Pomegranate	1.70
Coconut	1.00
Avocado	1.20
Tomato	0.50
Cucumber	0.40
Carrot	0.30
Broccoli	0.60
Spinach	0.50
Kale	0.70
Butter	0.80
Eggs	0.90
Milk	1.00
Cheese	1.20
Yogurt	0.80
Honey	1.50
Maple Syrup	1.80
Vanilla Extract	2.00
Almond Extract	2.20
Coconut Oil	1.50
Butter	0.80
Eggs	0.90
Milk	1.00
Cheese	1.20
Yogurt	0.80
Honey	1.50
Maple Syrup	1.80
Vanilla Extract	2.00
Almond Extract	2.20
Coconut Oil	1.50

| Sign Up | |
| Username |

```
<td><input type= "text" placeholder=" Enter your full name:" id="Username"
required pattern="[A-Za-z-0-9 ]+ "><br> <span id="namelocation" class="error"
style="text-decoration-color: red; display: none;">Name field cannot be
empty</span></td></tr>
```

| E-mail: |

```
<td><input type="email" id="mail" name="Mail" placeholder="Enter your e-mail id:"
required> <br> <span id="maillocation" class="error" style="text-decoration-color:
red;display: none;">E-mail field cannot be empty.</span></td></tr>
```

```
<tr><th>Password</th>
```

```
<td><input type="text" placeholder="Enter your password:"
id="Password" required pattern="{5,}" ><br><span id="passwordlocation" class="error"
style="text-decoration-color: red;display: none;">Password field cannot be
empty.</span><span id="passwordlocation1" class="error" style="text-decoration-
color: red;display: none;">Password should be more than 5 characters
long.</span></td></tr>
```

```
<tr><th>Password</th>
```

```
<td><input type="text" placeholder="Confirm your password:"
id="CPassword" required pattern="{5,}" ><br><span id="confirmlocation" class="error"
style="text-decoration-color: red;display: none;">Confirm the password. Password
does not match </span></td></tr>
```

```
</table><br>
```

```
<button id="sub1" class="button1" type="submit" onclick=" return validate()">Sign
up</button>
```

```
</form></center>
```

```
</div>
```

```
<div>
```

```
<h1 style="text-align: center;"> Muscle Magic</h1>
```

```
<center>
```

```
<form id="form1" onsubmit="handleSubmit(event)">
```

```
<table id="offertable" border="1px solid" style=" border-collapse: collapse;">
```

```
<tr><th colspan="2" style="text-align: center;">Sign Up</th>
```

```
<tr><th>Name</th>
```

```
<td><input type="text" placeholder=" Enter your full name:" id="name" required
pattern="[A-Za-z-0-9 ]+/"><br> <span id="namelo" class="error" style="text-
decoration-color: red; display: none;">Name field cannot be empty</span></td></tr>
```

```
<tr><th>E-mail:</th>
```

```
<td><input type="email" id="mail" name="mail1" placeholder="Enter your e-mail
id:" required> <br> <span id="maillo" class="error" style="text-decoration-color:
red;display: none; ">E-mail field cannot be empty.</span></td></tr>
```

```
<tr><th>Age</th>
```

```
<td><input type= "number" placeholder="Enter your age:"
id="age1" required ><br><span id="agelo" class="error" style="text-decoration-color:
red;display: none;">Age field cannot be empty.</span><span id="ageloc" class="error"
style="text-decoration-color: red;display: none;">Password should be more than 5
characters long.</span></td></tr>
```

```
<tr><th>Weight</th>
```

```
<td><input type= "number" placeholder="Enter your weight:"
id="weight" required ><br><span id="weightlo" class="error" style="text-decoration-
color: red;display: none;">Weight field cannot be empty. </span></td></tr>
```

```
<tr><th>Height</th>
```

```
<td><input type= "number" placeholder="Enter your height:"
id="height" required ><br><span id="heightlo" class="error" style="text-decoration-
color: red;display: none;">Height field cannot be empty. </span></td></tr>
```

```
</table><br>
```

```
<button id="sub2" class="button1" type="submit">Sign up</button>
```

```
<button id="sub2" class="button1" type="submit" onclick="reset()">Reset</button>
```

```
</form></center>
```

```
</div><br><br>
```

```
<div id="result"></div>
```

```
</body>
```

```
</html>
```

Assignment5.js

```
function wordplay() {
```

```
let in1 = document.getElementById("num1").value;
```

```
in1 = Number(in1);
```

```
if (in1 < 2) {
```

```
    document.getElementById("para1").innerHTML = "The value is not in the defined  
range.";
```

```
}
```

```
else if (in1 > 30) {
```

```
    document.getElementById("para1").innerHTML = "The value is not in the defined  
range.";
```

```
}
```

```
else {
```

```
    let result = "";
```

```
for (let i = 1; i <= in1; i++) {
```

```
    if (i % 2 === 0 && i % 5 === 0) {
```

```
        result += "jump ";
```

```
    } else if (i % 2 === 0) {
```

```
        result += "tap ";
```

```
    } else if (i % 5 === 0) {
```

```
        result += "stomp ";
```

```
    } else {
```

```
        result += i + " ";
```

```
    }
```

```
}
```

```
document.getElementById("para1").innerHTML = result.trim();
```

```
}
```

```
}  
  
function validate() {  
  
    document.getElementById("namelocation").style.display = "none";  
    document.getElementById("maillocation").style.display = "none";  
    document.getElementById("passwordlocation").style.display = "none";  
    document.getElementById("confirmlocation").style.display = "none";  
  
    let isValid = true;  
  
    let name = document.getElementById("Username").value.trim();  
    let mail = document.getElementById("mail").value.trim();  
    let pass = document.getElementById("Password").value;  
    let cpass = document.getElementById("CPassword").value;  
  
    if (name === "") {  
        document.getElementById("namelocation").style.display = "inline";  
        isValid = false;  
    }  
  
    let emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;  
    if (!emailPattern.test(mail)) {  
        document.getElementById("maillocation").style.display = "inline";  
        isValid = false;  
    }  
  
    if (pass.length < 5) {  
        document.getElementById("passwordlocation1").style.display = "inline";
```

```
        isValid = false;
    }

    if (pass !== cpass || cpass.length < 5) {
        document.getElementById("confirmlocation").style.display = "inline";
        isValid = false;
    }

    return isValid;
}

let obj_array = JSON.parse(localStorage.getItem("userData")) || [];
window.onload = function () {
    if (obj_array.length > 0) {
        renderTable(obj_array);
    }
};

function instantiateObject(name, age, height, weight) {
    return {
        Name: name,
        Age: age,
        Height: height,
        Weight: weight
    };
}

function addToArray(obj) {
    obj_array.push(obj);
}
```



```
localStorage.setItem("userData", JSON.stringify(obj_array));

return obj_array;
}

function handleSubmit(event) {
    event.preventDefault();

    const name = document.getElementById("name").value.trim();
    const age = document.getElementById("age1").value.trim();
    const height = document.getElementById("height").value.trim();
    const weight = document.getElementById("weight").value.trim();

    const person = instantiateObject(name, age, height, weight);

    const updatedArray = addToArray(person);

    let tableHTML = `<table class="table" border="1">
        <tr><th>Name</th><th>Age</th><th>Height</th><th>Weight</th></tr>`;

    updatedArray.forEach(function(obj) {
        tableHTML += "<tr>" +
            "<td>" + obj.Name + "</td>" +
            "<td>" + obj.Age + "</td>" +
            "<td>" + obj.Height + "</td>" +
            "<td>" + obj.Weight + "</td>" +
            "</tr>";
    });
}
```

```
    tableHTML += `</table>`;

renderTable(updatedArray);
}

function reset(){
    document.getElementById("form1").reset();
    document.getElementById("summary").innerText = "";
}

function renderTable(dataArray) {
    let tableHTML = `<table class="table" border="1">
        <tr><th>Name</th><th>Age</th><th>Height</th><th>Weight</th></tr>`;

    dataArray.forEach(function(obj) {
        tableHTML += "<tr>" +
            "<td>" + obj.Name + "</td>" +
            "<td>" + obj.Age + "</td>" +
            "<td>" + obj.Height + "</td>" +
            "<td>" + obj.Weight + "</td>" +
            "</tr>";
    });

    tableHTML += `</table>`;

    document.getElementById("result").innerHTML = tableHTML;
}
```

Snapshots :

WordPlay

Start the game by giving an input in the textbox below.

Enter a number between 1 and 30:

Submit the input

The result is:

1 tap 3 tap stomp tap 7 tap 9 jump 11 tap 13 tap stomp tap 17 tap 19 jump 21 tap 23

Form Validation

Sign Up	
Username	<input type="text" value="Enter your full name:"/>
E-mail:	<input type="text" value="Enter your e-mail id:"/>
Password	<input type="password" value="Enter your password:"/>
Password	<input type="password" value="Confirm your password:"/>

Sign up

Form Validation

Sign Up	
Username	<input type="text" value="Enter your full name:"/> Name field cannot be empty
E-mail:	<input type="text" value="Enter your e-mail id:"/> E-mail field cannot be empty.
Password	<input type="password" value="Enter your password:"/> Password should be more than 5 characters long.
Password	<input type="password" value="Confirm your password:"/> Confirm the password. Password does not match

Sign up

Sign Up	
Username	<input type="text" value="vijit"/>
E-mail:	<input type="text" value="vijit@5123.com"/>
Password	<input type="password" value="fgfd"/> Password should be more than 5 characters long.
Password	<input type="password" value="fvfvdfv"/> Confirm the password. Password does not match

Sign up

Muscle Magic

Sign Up	
Name	<input type="text" value="zaid"/>
E-mail:	<input type="text" value="zaid@2344"/>
Age	<input type="text" value="Enter your age:"/>
Weight	<div><div>!</div>Please fill out this field. <input type="text" value="70"/></div>
Height	<input type="text" value="170"/>

Sign up Reset

Name	Age	Height	Weight
Vijit	18	178	59
Shivaprasad Shetty	23	178	78
mike	22	178	78