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Assignment 5
Submitted by: Vijit Shetty
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>
 <h1>WordPlay</h1>
 Start the game by giving an input in the textbox below.
 <br>
 <label for="num1">Enter a number between 1 and 30:</label>
 <input type="number" id="num1"> &nbsp; &nbsp;
 <button id="but1" class="button1" onclick="wordplay()">Submit the input</button>
 <br>
 <label for="para1">The result is:</label>
 </div>
 <br>
 <hr><hr>
 <div>
  <h1 style="text-align: center;"> Form Validation</h1>
  <center>
  <form id="form1">
  Sign Up
  Username
  <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>
  E-mail:
```

```
<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>
   Password
   <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>
   Password
   <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>
   <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)">
   Sign Up
   Name
   <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>
   E-mail:
```

```
<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>
   Age
   <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>
   Weight
   <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>
   Height
   <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>
 <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 is Valid;
}
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 = `
   NameAgeHeightWeight<;;
 updatedArray.forEach(function(obj) {
 tableHTML += "" +
   "" + obj.Name + "" +
   "" + obj.Age + "" +
   "" + obj.Height + "" +
   "" + obj.Weight + "" +
   "";
});
```

```
tableHTML += ``;
renderTable(updatedArray);
}
function reset(){
document.getElementById("form1").reset();
document.getElementById("summary").innerText = "";
}
function renderTable(dataArray) {
 let tableHTML = `
   NameAgeHeightWeight<;;
 dataArray.forEach(function(obj) {
 tableHTML += "" +
  "" + obj.Name + "" +
  "" + obj.Age + "" +
  "" + obj.Height + "" +
  "" + obj.Weight + "" +
  "";
});
 tableHTML += ``;
 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: 23

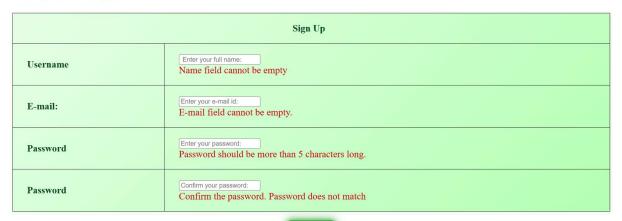
Submit the input

The result is:

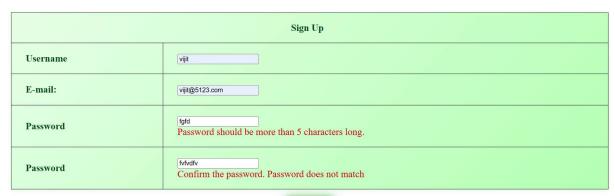
1tap 3tap stomp tap 7tap 9jump 11tap 13tap stomp tap 17tap 19jump 21tap 23

Form Validation Sign Up Username Enter your full name: E-mail: Enter your e-mail id: Password Enter your password: Confirm your password:

Form Validation



Sign up





Muscle Magic





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