Topic: Dom forms

Form Handling

1. Accessing Form Elements:

```
<form id="myForm">
    <input type="text" id="username">
    <input type="email" id="email">
    <button type="submit">Submit</button>
</form>

<script>
    const form = document.getElementById('myForm');
    const usernameInput = document.getElementById('username');
    const emailInput = document.getElementById('email');
</script>
```

2. Setting Input Values:

You can set input values using the value property:

```
usernameInput.value = "John Doe";
emailInput.value = "john@example.com";
```

3. Getting Form Data:

You can get form data when the form is submitted:

```
form.addEventListener('submit', function(event) {
    event.preventDefault(); // Prevent form submission
    const formData = new FormData(form);
    // Access form data
    const username = formData.get('username');
    const email = formData.get('email');
    // Do something with the data
});
```

4. Changing Input Field Values

You can change the value of input fields dynamically based on user actions or other events:

```
<input type="text" id="myInput">
<button onclick="changeInputValue()">Change Value</button>
<script>
  function changeInputValue() {
    const input = document.getElementById('myInput');
    input.value = 'New Value';
  }
</script>
```

5. Accessing through values

```
document.forms[0].addEventListener('submit', function(event){
    event.preventDefault(); // Prevent form submission
    console.log(event);//stores the lot of form info including child tags of form
    console.log(event.target[0].value);//prints the value of first child in the first form
})
```

In above program document.forms[0] get the first form, e.preventdefault prevents the form default submission

console.log(event) prints a lot of form data and event.target gets the childrens of the form in collection format. Examples:

https://github.com/Abhinavsai-12/10kCoders JavaScript/tree/main/Day-13%20DOM%20part-4/practice

```
Accessing the Forms:
Ex: - Lform action = " >
        Zinpat type = "text" id = "useq name". Placeholder = "Enler useq mone "&
        < input type = "submit" · value submit">
  4/form>
     val form = document. query selector ( form ").
     consoleolog ( form");
Example-2:-
      Vas form = document. forms [O]: Il field name
      vas uses none = document. quesy seinetos ("/nput");
       console. log (usename. value); Il value at input.
 Example: - Form submitting
    vas form = document. froms[0];
     form. add Eventlistnes ("submit", function () {
        console . Log ["form submited");
    the output will not display the console to over come
       this we use event prevent Default (); method ed in function
       Palanela should be event.
      Vag form = document . forms [0];
       form. add Event listney (" submit", function (event) }
           event . prevent Default ( );
            console log(" form Submitted");
```

```
Example: Save ilp which is given by Uses
  <input tope="text" placeholder="Enler userme" id="use">
    vac from = document : froms [0];
     form, add Eventlistenes ("Submit", function (event){
           vag inp = document. query selector ("input");
          console. log (inp. value); this will not submit the
     3)
Example: Form validation.
    vas form = document oforms[0];
    Form a add Event Listers ( "Submit", function (event) {
         vas hp = document. query selector ("input");
          ir (ingvaire ") {
               aleast ( west name is sequiped ");
          elses
             aleast ("form Submited");
Example: - Password Strength Checken,
       Vas form = documento forms[0];
        forms. add Event Listoner ("submit"; function (event)
            event. prevent Default ();
           vay inp = document . query Selector ("input");
```

```
if ( inpovalue length >10) }
                 Consoleolog ("Password is strong");
       else if (inprovalue-length x=10 ee improduc-length >s) {
            console log (" Password is Medium");
        des
           consoleolog (" Password is week ");
Example: - Passwood Matches
 < input type="password" 'Place holder="Enterpas" id="ip1">
Linput type = 4 passwood " Place holder = "Emfirm pass" id = "112">
Localpt>
  has toom = document. formato];
   forma . add Eventlistenes ("submit", function (event) {
         Event. prevent Default ();
          vag ip1 = document. getery selector ("input");
          vas ip2 = document. get Element By Id (" ip2");
          if (ipt. value = = ipzivalue){
                  consider log ("both are Matched");
            2
          elses
               Console. Log ("both are not Matched");
          3
  3)
```

```
Example: - display may if password not matched
        cinput type = pressoord

        esubnit > click here cloubant >
       escripts
           vas form = documentoforms[0];
          form- add Eventlisteres ("Submit", function (event) {
                 event. Prevent Default ();
            Vac inpl= document oquery selector ("Input");
            vae inp2 = socurent. query Selector All ("input")[17;
           if [ inp1. value = = inp2. value) {
                    consoleolog ("both ago not matched");
           Clse &
                 consider log (" both are not matched ");
                 Var span = Jocument · query Sclector ("span");
                 span o style display = "block";
CS!-
(Span {
          colog: sed
          display : none;
Example: - if Jext field is empty display It is ompty text
   spang
        display: none;
        color : sed;
```

```
Lform actellon = " ">
     cinput type = text , Placeholder = "Enler your Name">
     LSubmit > Qubmit </ Botomit
   Lifoom> Water your name "LISPAN>
  LSCRIPT>
         vas form = document. form[o];
         form add Event Listenes ("submit", function (event) }
             event. prevent Defaul+();
          vas ip = do coment query selector ("input"):
          if (ip.value == 11 11) {
                  console. Log ("dispose Enter Your Name");
                   vae span = document. query selector ("span");
                   span. style od isplay = "block" "
           3
          Clse Ever span = document . query selector ("span");
               console log (" Dame is Submited");
               span . style edisplay = " none ";
event target :-
      vas toom = document of orang[0];
      form . add Event Listoner ("submit", function (event) {
             event. Prevent Default ();
             console. log ( event, touget [4]); / chement in forms
        2-
=) for value !-
        evento poera
         console. log ( event . taget (0] . value);
        console log (event); Il consoles the forms and forms elements.
```

```
Example:
 <"nput type="text" | 1="Inp1" placehold="enter a value">
cinput type = "text" id = "ing2" placeholder = "enter a value"s
 <div class = "output"> = value </div >
 < button is = "add " > add < /button >
<saipt>
   ver ben = document . get Element By Id ("add");
   btn add Event Listener ("Click", function () {
        van inp1= document. get Element By Id ("inp1");
        var inp2 = document o get Element By Td ("inp2");
       vay Halue = Nortex (inpiovalue) + Number (inpiovalue);
      Was div = document-get Element By Class Name ("outst") [0]
      divolance HTML= "+ value;
      inps. value = 11;
     inp2. value = (1.
```

TASKS:

1) Password Strength Checker:

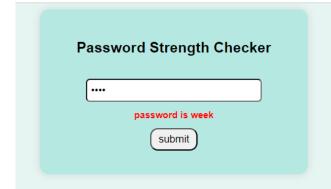
Create an input field where a user types a password, and the script checks if the password is "Strong", "Medium", or "Weak" based on its length.

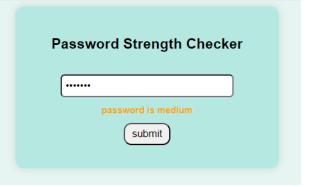
Code:

```
<style>
    body {
       font-family: Arial, sans-serif;
       display: flex;
       justify-content: center;
       align-items: center;
       background-color: #c6e9e36f;
    .container {
       background-color: #6cd5c965;
       padding: 20px;
       border-radius: 12px;
       box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
       width: 20%;
    \#fm\{
       display: flex;
       flex-direction: column;
       justify-items:center;
       align-items: center;
    input{
       width: 70%;
       padding: 5px;
       margin: 10px;
       border-radius:5px;
    #sub{
       width: 20%;
       padding: 5px;
       margin: 10px;
       border-radius:10px;
    span {
       font-size: 12px;
       font-weight:bold;
       display: none;
    </style>
</head>
<body>
  <div class="container">
    <form action="" id="fm">
       <h3>Password Strength Checker</h3>
       <input type="password" id="pass" placeholder="Enter password">
       <span></span>
       <input type="submit" id="sub" value="submit">
     </form>
  </div>
  <script>
```

```
var form=document.forms[0];
 form.addEventListener("submit",function(event){
    event.preventDefault();
    var inp=document.getElementById("pass");
    var span=document.querySelector("span");
    var span=document.getElementsByTagName("span")[0];
    if(inp.value.length>10){
      span.inner HTML = "password\ is\ strong";
      span.style.display="block";
      span.style.color="green";
    else if(inp.value.length<=10 && inp.value.length>5){
      span.innerHTML="password is medium";
      span.style.display="block";
      span.style.color="orange";
    }
    else{
      span.innerHTML="password is week";
      span.style.display = "block";\\
      span.style.color="red";
  })
</script>
```

Output





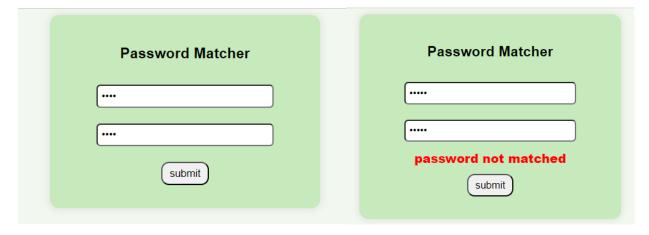


2) password matcher

Code:

```
<style>
    body {
       font-family: Arial, sans-serif;
       display: flex;
       justify-content: center;
       align-items: center;
       background-color: #e3f1dd6f;
     .container {
       background-color: #83d56c65;
       padding: 20px;
       border-radius: 12px;
       box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
       width: 20%;
    #fm {
       display: flex;
       flex-direction: column;
       justify-items:center;
       align-items: center;
    input {
       width: 70%;
       padding: 5px;
       margin: 10px;
       border-radius:5px;
    #sub{
       width: 20%;
       padding: 5px;
       margin: 10px;
       border-radius:10px;
    span {
       color: red;
       font-weight:900;
       display: none;
     </style>
</head>
<body>
  <div class="container">
    <form action="" id="fm">
       <h3>Password Matcher</h3>
       <input type="password" id="pass1" placeholder="Enter password">
       <input type="password" id="pass2" placeholder="Confirm password">
       <span>password not matched</span>
       <input type="submit" id="sub" value="submit">
    </form>
  </div>
  <script>
    var form=document.forms[0];
    form.addEventListener("submit",function(event){
       event.preventDefault();
       var pass1=document.getElementById("pass1");
       var pass2=document.getElementById("pass2");
       if(pass1.value==pass2.value){
         console.log("password is matched");
       else{
```

Output



3) simple calculator

```
k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css">
  <style>
     h1{
       text-align: center;
     .container{
width: 27%;
height: 500px;
margin: auto;
        border: 2px solid black;
        display: grid;
       grid-template-columns: auto auto auto;
        grid-template-rows: 70px;
       gap: 10px;
padding: 10px;
background-color: rgba(144, 215, 238, 0.571);
     #result{
       grid-column: 1/4;
        height: 55px;
        text-align: right;
        padding-top: 10px;
       font-size: 24px;
font-weight: 800;
        resize: none;
        scrollbar-width: none;
        background-color: rgb(180, 245, 248);
     .button\{\\
        font-size: 24px;
font-weight: 500;
       background-color:rgba(4, 214, 251, 0.951);
     .op\{
       background-color: rgb(92, 131, 240);
     . history \{\\
        grid-column: 1/3;
        background-color: rgba(255, 0, 0, 0.682);
     .clear{
       grid-column: 3/5;
        background-color: rgba(255, 0, 0, 0.682);
  </style>
</head>
<body>
  <h1>Calculator</h1>
```

```
<textarea id="result"></textarea>
     <button onclick="back()" class="button backspace" ><i class="fa-solid fa-delete-left"></i></button>
    <input type="button" onclick="dis('7')" value="7" class="button">
input type="button" onclick="dis('8')" value="8" class="button">
input type="button" onclick="dis('9')" value="9" class="button">
input type="button" onclick="dis('/')" value="/" class="button op">

     <input type="button" onclick="dis('4')" value="4" class="button">
     input type="button" onclick="dis(5")" value="5" class="button">
input type="button" onclick="dis(6")" value="6" class="button">
input type="button" onclick="dis(6")" value="6" class="button">
input type="button" onclick="dis(1")" value="1" class="button">
     <input type="button" onclick="dis('1')" value="1" class="button">
<input type="button" onclick="dis('2')" value="2" class="button">
<input type="button" onclick="dis('3')" value="3" class="button">
     <input type="button" onclick="dis('+')" value="+" class="button op">
    <input type="button" onclick="dis('.')" value="." class="button op"> 
<input type="button" onclick="dis('0')" value="0" class="button"> 
<input type="button" onclick="solve(")" value="=" class="button op"> 
<input type="button" onclick="dis('-')" value="-" class="button op">
     <input type="button" onclick="hist()" value="History" class="button history">
     <input type="button" onclick="clr()" value="Clear" class="button clear">
  </div>
 <script>
     var his="":
     function dis(a){
         document.getElementById("result").value +=a;
     function back(){
         let x=document.getElementById("result").value;
         let y=":
         for(i=0;i \le x.length-1;i++)\{
            y+=x[i];
         document.getElementById("result").value=y;
     function clr(){
         document.getElementById("result").value="";
     function solve(){
         let x=document.getElementById("result").value;
         his +="->"+x+"\setminus n";
         let y=eval(x);
        document.getElementById("result").value=y;\\
        return y;
     function hist(){
        document.getElementById("result").value=his;
```

Calculator

☆ 🔥 :

