



IWT LAB FILE

Enrollment :2022bcse012

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Unit 3

A, HTML Form Basics: Textbox, Radio buttons, Checkbox, Textarea, Submit button, Date, Dropdown

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>form sample</title>
</head>
<body style="font-size: 20px;">
  <form action="/submit" method="post">
    <!-- Text Input -->
    <label for="username">Username:</label>
    <input type="text" id="username" name="username" required>
    <br>
    <!-- Radio Buttons -->
    <label>Gender:</label>
    <input type="radio" id="male" name="gender" value="male
checked>
    <label for="male">Male</label>
    <input type="radio" id="female" name="gender" value="female">
    <label for="female">Female</label>
    <br>
    <!-- Checkboxes -->
    <label>Hobbies:</label>
    <input type="checkbox" id="reading" name="hobbies"
value="reading">
    <label for="reading">Reading</label>
    <input type="checkbox" id="coding" name="hobbies"
value="coding">
    <label for="coding">Coding</label>
    <br> <br>
    <!-- Text Area -->
    <label for="bio">Bio:</label>
    <textarea id="bio" name="bio" rows="4" cols="50"></textarea>
    <br> <br>
    <!-- Select Dropdown -->
    <label for="country">Country:</label>
```

```
<select id="country" name="country">
  <option value="usa">United States</option>
  <option value="canada">Canada</option>
  <option value="uk">United Kingdom</option>
</select>
<br> <br>
<!-- Submit Button -->
<input style="font-size: 20px;" type="submit" value="Submit">
</form>
</body>
</html>
```

Output:

Username:

Gender: ☒ Male ☐ Female

Hobbies: ☐ Reading ☐ Coding

Bio:

Country:

B, About Reset button in html form :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Reset Button Example</title>
</head>
<body style="font-size: 40px;">
  <form>
    <label for="username">Username:</label>
    <input type="text" id="username" name="username">
    <br>
    <label for="password">Password:</label>
    <input type="password" id="password" name="password">
```

```
<br>
<!-- Reset Button -->
<input style="font-size: 40px;" type="reset" value="Reset">
<!-- Submit Button -->
<input style="font-size: 40px;" type="submit" value="Submit">
</form>
</body>
</html>
```

Output:

Username:

Password:

B, Document Object Model (DOM): Elements, Forms, Methods and properties, Nodes: Create element node, create text node, create comment node, append node. JavaScript Functions, Variables. Developing simple functions for form validators, Advanced Form Validation using JavaScript: Textbox, password, phone number validation.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>DOM Manipulation Example</title>
</head>
<body>
  <p id="tag">Paragraph 1</p>
  <script>
    // Using document.write
    document.write("<h1>Hello, world!</h1>");
    // Using document.getElementById
    var elementsById = document.getElementById("tag");
    elementsById.innerHTML="m changed";
    document.write(elementsById);
```

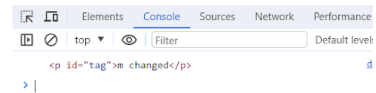
```
        console.log(elementsById);  
    </script>  
</body>  
</html>
```

Output:

m changed

Hello, world!

[object HTMLParagraphElement]



Q: Difference between console.log and document.write.

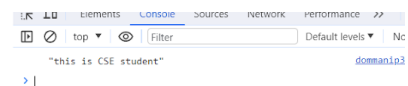
Code:

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
    <meta charset="UTF-8">  
    <meta name="viewport" content="width=device-width,  
initial-scale=1.0">  
    <title>Dom manipulation</title>  
</head>  
<body>  
    <h1> understanding difference between console.log and  
document.write</h1>  
    <script>  
        let x= document.createTextNode("this is CSE student");  
        document.write(x);  
        console.log(x);  
    </script>  
</body>  
</html>
```

Output:

understanding difference between console.log and document.write

[object Text]



Q: createElement method:

Code:

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
    <meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<title>Dom manipulation</title>
</head>
<body>
<h1> createElement method</h1>
<script>
    let x= document.createElement("p");
    document.write(x);
    console.log(x);
</script>
</body>
</html>
```

Output:



Q: create commentnode method:

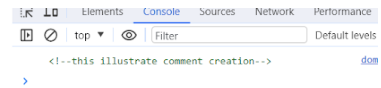
Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<title>Dom manipulation</title>
</head>
<body>
<h1> createcomment method</h1>
<script>
    let x= document.createComment("this illustrate comment
creation");
    document.write(x);
    console.log(x);
</script>
</body>
</html>
```

Output:

createcomment method

[object Comment]



Q, appendchild method:

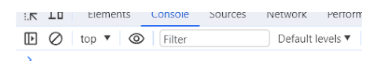
Code:

```
<!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>
  <h1> this is hadiya</h1>
  <script>
    let a=document.createElement("p");
    document.write(a);
    //console.log(a);
    let d=document.createTextNode("inserted via dom manipulation");
    let h= a.appendChild(d);
    document.write(h);
    //console.log(h);
  </script>
</body>
</html>
```

Output:

his is hadiya

[object HTMLParagraphElement][object Text]



Q: textbox validation:

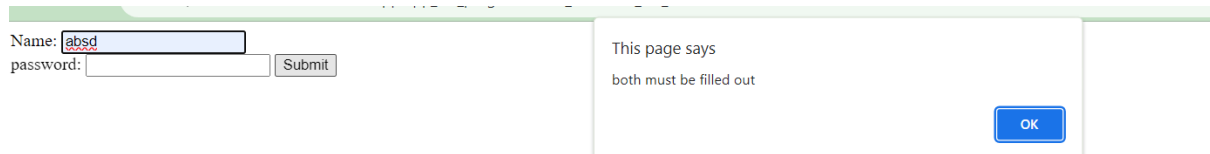
Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
```



```
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<title>form validation</title>
</head>
<body>
  <form name="myForm" action="/action_page.php" onsubmit="return
validateForm()" method="post">
    Name: <input type="text" name="fname">
    <br>
    password: <input type="password" name="fpassword">
    <input type="submit" value="Submit">
  </form>
  <script>
    function validateForm() {
    let x = document.forms["myForm"]["fname"].value;
    let y= document.forms["myForm"]["fpassword"].value;
    if (x == "" || y=="") {
      alert("both must be filled out");
      return false;
    }
  }
  </script>
</body>
</html>
```

Output:



The screenshot shows a web browser displaying a form with two input fields: 'Name:' and 'password:'. The 'Name:' field contains the text 'absd'. Below the 'password:' field is a 'Submit' button. An alert dialog box is open in the center of the screen, displaying the message 'This page says both must be filled out' with an 'OK' button.

Q, phone no. validation:


Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>form validation</title>
</head>
```

```
<body>
    <form name="myForm" action="/action_page.php" onsubmit="return
validateForm()" method="post">
        <label for="phone">Enter your phone number:</label>
        <input type="tel" id="phone" name="phone"
pattern="[0-9]{3}-[0-9]{2}-[0-9]{3}">
        <input type="submit">
    </form>
</body>
</html>
```

Output:

Enter your phone number:

 Please match the format requested.

Q, password validation:

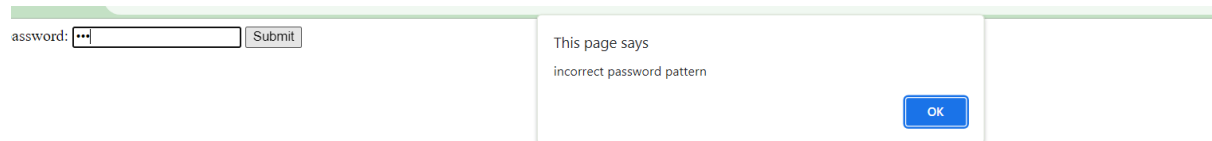
Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>form validation</title>
</head>
<body>
    <form name="myForm" action="/action_page.php" onsubmit="return
validateForm()" method="post">
        password: <input type="password" name="fpassword" title="Must
contain at least one number and one uppercase and lowercase letter,
and at least 8 or more characters">
        <input type="submit" value="Submit">
    </form>
    <script>
        function validateForm() {
            let x = document.forms["myForm"]["fpassword"].value;
            if (x!="(?=.*\d)(?=.*[a-z])(?=.*[A-Z]).{8,}") {
                alert("incorrect password pattern");
```

```
        return false;
    }
}

</script>
</body>
</html>
```

Output:



assword:

This page says
incorrect password pattern

UNIT IV

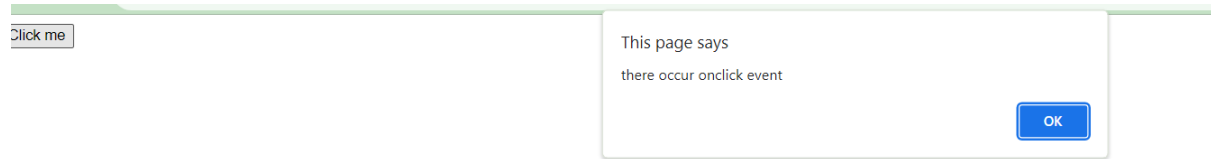
Advanced DHTML Event handlers: Onclick, Onload, OnMouseOver, OnMouseout, OnKeydown, OnKeyup, OnSubmit, OnChange. Tracking the Mouse: Reporting the x and y position of the mouse.

Q, onclick event:

Code:

```
<!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>
    <button onclick="myFunction()">Click me</button>
    <script>
        function myFunction() {
            alert("there occur onclick event");
        }
    </script>
    // <button onclick="document.write('onclick event');">Click
me</button>
</body>
</html>
```

Output:



Q, onmouseover event:

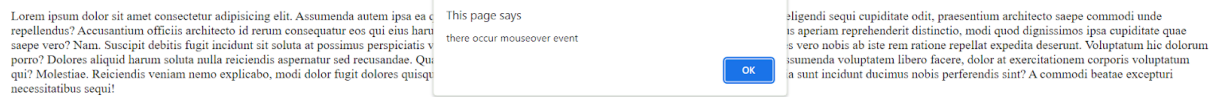
Code:

```
<!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>
  <p onmouseover="myFunction()">Lorem ipsum dolor sit amet
consectetur adipisicing elit. Assumenda autem ipsa ea qui doloremque
recusandae ratione! Tenetur minima aspernatur, atque eligendi sequi
cupiditate odit, praesentium architecto saepe commodi unde repellendus?
  Accusantium officiis architecto id rerum consequatur eos qui eius
harum aliquid, eligendi facilis sequi vitae temporibus deleniti
necessitatibus aperiam reprehenderit distinctio, modi quod dignissimos
ipsa cupiditate quae saepe vero? Nam.
  Suscipit debitis fugit incidunt sit soluta at possimus perspiciatis
veritatis consectetur cupiditate labore magnam, omnis officiis
asperiores vero nobis ab iste rem ratione repellat expedita deserunt.
Voluptatum hic dolorum porro?
  Dolores aliquid harum soluta nulla reiciendis aspernatur sed
recusandae. Quae sapiente placeat officia! Similique, quia. Sint
eveniet, saepe, alias assumenda voluptatem libero facere, dolor at
exercitationem corporis voluptatum qui? Molestiae.
  Reiciendis veniam nemo explicabo, modi dolor fugit dolores quisquam
animi laudantium a, temporibus deserunt odio illo dolorum mollitia sunt
incidunt ducimus nobis perferendis sint? A commodi beatae excepturi
necessitatibus sequi!</p>
  <script>
    function myFunction() {
      alert("there occur mouseover event");
    }
  </script>
```

```
</script>

<!-- <button onmouseover="document.write('on mouseover
event');">Click me</button> -->
</body>
</html>
```

output:



Q, onkeydown event:

Code:

```
<!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>
  <input type="text" onkeydown="keydownFunction()"
onkeyup="keyupFunction()">
  <script>
    function keydownFunction() {
      alert("there occur onkeydown event");
    }
    function keyupFunction() {
      alert("there occur onkeyup event");
    }
  </script>
  <!-- <button onkeydown="document.write('onkeydown event');">Click
me</button> -->
</body>
<html>
```

Output:

This page says
there occur onkeydown event

OK

Q, onkeyup event:

Code:

```
<!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>
  <input type="text" onkeydown="keydownFunction()"
onkeyup="keyupFunction()">
  <script>
    // function keydownFunction() {
    //   alert("there occur onkeydown event");
    // }
    function keyupFunction() {
      alert("there occur onkeyup event");
    }
  </script>
  <!-- <button onkeydown="document.write('onkeydown event');">Click
me</button> -->
</body>
</html>
```

Output:

This page says
there occur onkeyup event

OK

Q, onload event:

Code:

```
<!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 onload="alert('page loaded successfully'); " >
  <!-- 
  <script>
    function loadImage() {
      alert("Image is loaded");
    }
  </script>  -->
  hello
</body>
</html>
```

Output:



Code for commented part...

```

  <script>
    function loadImage() {
      alert("Image is loaded");
    }
  </script>
```

output:



hello