

Assignment 1

- 1) * Update the Doctype: Ensure your HTML document starts with the HTML5 doc Type to leverage HTML5 features:-

`<!DOCTYPE html>`

- * use New Semantic Elements:- Replace generic `<div>` and `` tags with HTML5 semantic elements to improve readability & accessibility

- * `<header>` for headers.
- * `<nav>` for navigation links.
- * `<section>` for section.
- * `<article>` for self contained content.
- * `<aside>` for side content
- * `<footer>` for footer
- * `<main>` for primary content.

- * update forms with New Input:-

Types:- HTML5 introduces new input types that enhance user experience and validation.

- * `<input type = "email">` for email address.
- * `<input type = "url">` for URLs
- * `<input type = "date">` for date
- * `<input type = "number">` for numeric input.

- * Add form attributes:- utilize new attributes to improve form functionality.

- * required to make field mandatory
 - * placeholder to provide hint text
 - * pattern for custom validation with regex.
 - * autofocus to suggest or remember input.
- * Implement new form elements:-

Take advantage of new form elements.

- * `<datalist>` to provide options for an `<input>`.

Improve Accessibility

- * ARIA Roles and Attributes use ARIA roles and attributes to improve accessibility.

Example for transitioned form:

```
<form action = "/submit",  
method = "post">  
  <div>  
    <label  
for = "username" > username: </label>  
    <input type = "text"  
id = "username" name = "username".  
placeholder = "Enter your username"  
required >  
  </div>  
  <div>  
    <input type = "submit" value = "submit" >  
  </div>  
</form>
```

Output:-

welcome to our website

Name	Birthday date

Q.) HTML Structure:-

```
<!DOCTYPE html>  
<html lang="en">  
  <head>  
    <meta charset = "UTF-8">  
    <meta name = "viewport"  
content = "width = device-width, initial-  
scale = 1.0">  
    <title> user Registration form </title>  
    <style>  
      body {  
        font-family: Arial,
```

Sans-Serif;

max-width: 600px;

margin: auto;

}

form {

display: flex;

flex-direction:

column;

y

label {

margin: 10px 0 5px;

}

input, text area {

padding: 8px;

margin-bottom: 10px;

border: 1px solid #ccc;

}

button {

padding: 10px;

border: none;

border-radius: 4px;

background-color:

#4CAF50;

color: white;

cursor: pointer;

#4CAF50;

}

</style>

<h1>Web Registration</h1>

<form id="registration form">

<label for="name">Name</label>

document.getElementById("registration form").add
EventListener("submit") {

var name = document.getElementById

if (!name || !email || !message) {

alert("All fields are required");

}

</script>

</body>

</html>

Output:-

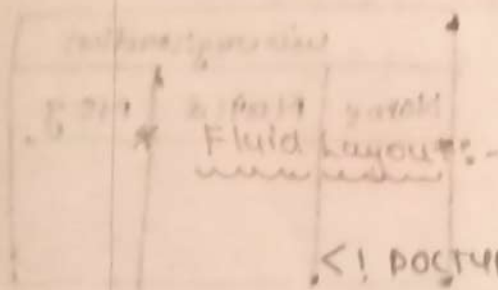
Web Registration		
Name	Email	Msg

3) Fixed Layout:

```

<!doctype html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport"
  content="width=device-width, initial-scale=1.0">
</head>
<body>
  margin: 0;
  padding: 0;
  <div class="container">
    <div class="header"> fixed layout
      Header </div>
    <div class="main"> fixed width
      content </div>
  </body>
</html>

```



```

<!doctype html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport">
  }
  main {
    padding: 20px;
  }
</head>
</body>

```