

Task Presentation

From Task 1 to Present

HTMLCSJS - Siva - OCT2024

Tasks Contents and page no.

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Task 1

**HTML
TAGS**

BASIC HTML TAG

HTML (HyperText Markup Language) is the standard language used to create and structure content on the web. It uses a system of tags to define elements like headings, paragraphs, links, images, and more. These tags describe the structure and format of web pages for browsers to display.

In short, HTML is the foundation of every web page, allowing content to be organized and displayed.

Basic Tags

<!DOCTYPE html> Declaration for HTML version

Visit W3Schools!

<h1>Heading 1</h1><h6>Heading 6</h6>

<header>Header content here.</header>

<hr> Horizontal rule here.

<html lang="en"></html>

<input type="text" placeholder="Enter name">

Basic Tags

Bold text

<big>This is large text.</big>

<body>The main content goes here.</body>

 - break line

<div>Container for content.</div>

<form action="/submit"><input type="text"></form>

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

Basic Tags

```
<li>Item 1</li><br>
```

```
<ol><li>First</li><li>Second</li></ol><br>
```

```
<p>This is a paragraph.</p>
```

```
<script>alert("Hello!");</script>
```

```
<small>Smaller text</small>
```

```
<textarea>Enter text here</textarea>
```

```
<ul><li>Item 1</li></ul><br>
```

Basic Tags

```
<link rel="stylesheet" href="style.css">
```

```
<progress value="70" max="100">70%</progress>
```

```
<s>Strikethrough text</s>
```

```
<table><tr><td>Cell</td></tr></table>
```

```
<strong>Strong text</strong>
```

```
<select><option>Option 1</option></select>
```

Task 2

CASCADING STYLE SHEETS

Presented By : Sivasaran

2024

SHORT CONCLUSION

CSS is the language we use to style an HTML document.
CSS describes how HTML elements should be displayed.

Welcome to My Homepage

Use the menu to select different Stylesheets

- Stylesheet 1
- Stylesheet 2
- Stylesheet 3
- Stylesheet 4
- No Stylesheet

Same Page Different Stylesheets

This is a demonstration of how different stylesheets can change the layout of your HTML page. You can change the layout of this page by selecting different stylesheets in the menu, or by selecting one of the following links:

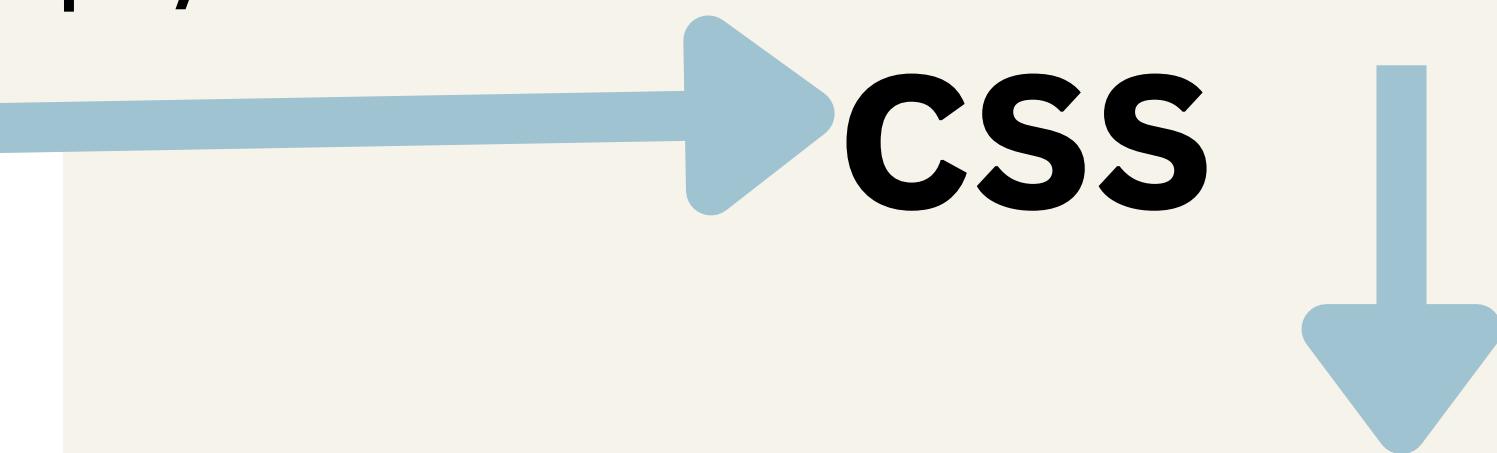
[Stylesheet1](#), [Stylesheet2](#), [Stylesheet3](#), [Stylesheet4](#).

No Styles

This page uses DIV elements to group different sections of the HTML page. Click here to see how the page looks like with no stylesheet:

[No Stylesheet](#).

Side-Bar



Welcome to My Homepage

Use the menu to select different Stylesheets

Same Page Different Stylesheets

This is a demonstration of how different stylesheets can change the layout of your HTML page. You can change the layout of this page by selecting different stylesheets in the menu, or by selecting one of the following links:

[Stylesheet1](#), [Stylesheet2](#), [Stylesheet3](#), [Stylesheet4](#).

No Styles

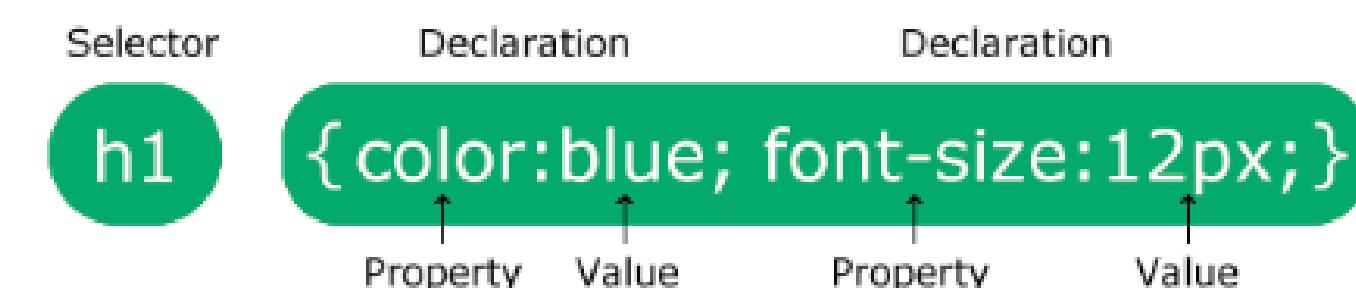
This page uses DIV elements to group different sections of the HTML page. Click here to see how the page looks like with no stylesheet:

[No Stylesheet](#).

Side-Bar

OVERVIEW

CSS Syntax



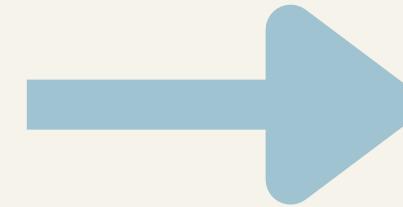
```
<style>
p {
  color: red;
  text-align: center;
}
</style>
```

```
<body>
  <p>Hello World!</p>
  <p>These paragraphs are styled with CSS.</p>
</body>
```

Hello World!

These paragraphs are styled with CSS.

3 Ways to Insert CSS



External CSS - eg: `style.css`

Internal CSS - eg: `<style></style>` in head tag

Inline CSS - eg: `<p style="color:red;">This is a paragraph.</p>`

Element Selector - `p{}`

Id Selector - `#id_name{}`

class selector - `.class_name{}`

specific selector- `p.class{}` // only p(element) with this classname

multi class name- `<p class="center large">`

// we can use either center or large for class styles eg: `p.large{}`



Selectors

linking: `<link rel="stylesheet" type="text/css" href="mystyle.css">`

Registration

User Name

E-mail

Password

File Upload No file chosen

Date 

Gender:

Male Female Other

Agree to terms and conditions

Submit



```
body {  
    display: flex;  
    justify-content: center;  
    align-items: center;  
    height: 100vh;  
    background-color: #f4f4f4;  
    font-family: Arial, sans-serif;  
}  
  
fieldset {  
    padding: 20px;  
    background-color: white;  
    border-radius: 8px;  
    width: 300px;  
}  
  
input, button {  
    width: 100%;  
    padding: 10px;  
    margin-bottom: 15px;  
    border-radius: 5px;  
    border: 1px solid #ccc;  
}  
  
.gender-group,  
.checkbox-group {  
    display: flex;  
    justify-content: center;  
    margin-bottom: 15px;  
}  
  
button {  
    background-color: #ed1703;  
    color: #fff;  
    cursor: pointer;  
}  
  
button:hover {  
    background-color: #45a049;  
}
```

Output:

Registration

User Name

E-mail

Password

File Upload

No file chosen

Date

Gender: Male Female Other



Agree to terms
and conditions

Submit

Before css:

```

body {
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  background-color: #f4f4f4;
  font-family: Arial, sans-serif;
}

fieldset {
  padding: 20px;
  background-color: white;
  border-radius: 8px;
  width: 300px;
}

input, button {
  width: 100%;
  padding: 10px;
  margin-bottom: 15px;
  border-radius: 5px;
  border: 1px solid #ccc;
}

.gender-group,
.checkbox-group {
  display: flex;
  justify-content: center;
  margin-bottom: 15px;
}

button {
  background-color: #ed1703;
  color: #fff;
  cursor: pointer;
}

button:hover {
  background-color: #45a049;
}

```

User Name

Password

After CSS:

User Name

Password

Login

Task 3

Added Media Query

```
/* Tablet view styling */
@media (max-width: 768px) {
    .device-label::before {
        content: "It's a Tablet device";
    }
}

/* Mobile view styling */
@media (max-width: 480px) {
    .device-label::before {
        content: "It's a Mobile device";
    }
}
```

Task 4

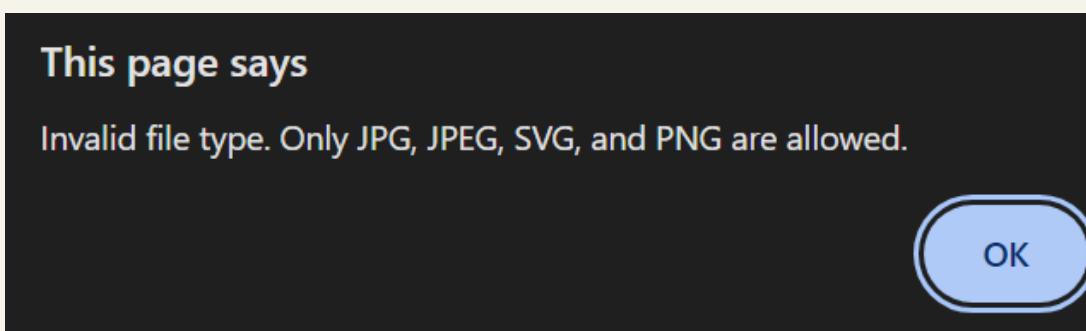
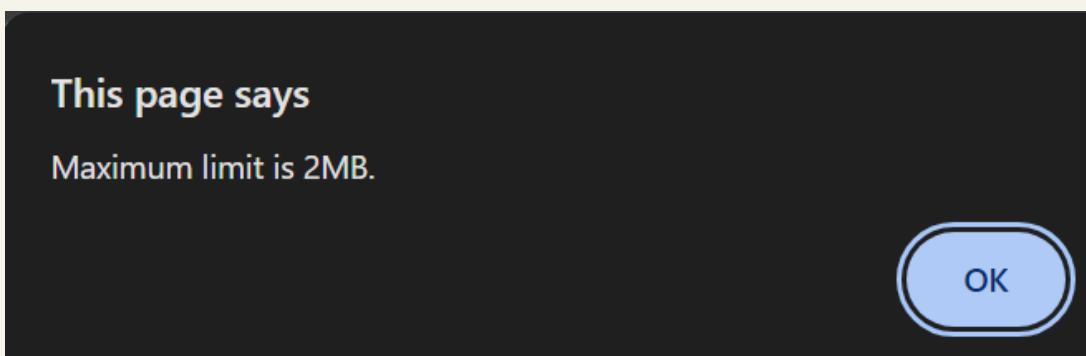
Javascript Introduction

File Upload Condition Added

```
function max_size(input) {  
    const max = 2 * 1024 * 1024; // 3 MB in bytes  
    const file = input.files[0];  
  
    if (file) {  
        // Check file size  
        if (file.size > max) {  
            alert("Maximum limit is 2MB.");  
            console.log("File size exceeds 3MB limit.");  
            let x = document.getElementsByClassName(".device-label").value;  
            console.log(x)  
        }  
  
        // Check file type  
        const allowedTypes = ['image/jpeg', 'image/png', 'image/svg+xml'];  
        if (!allowedTypes.includes(file.type)) {  
            alert("Invalid file type. Only JPG, JPEG, SVG, and PNG are allowed.");  
            console.log("Invalid file type:", file.type);  
            input.value = ""; // Clear the input if type is invalid  
        }  
    }  
}
```

HTML:

```
<label>File Upload</label>  
<input type="file" id="fileload"  
onchange="max_size(this)">
```



Selectors

GetElementById, Class, Query selector

HTML:

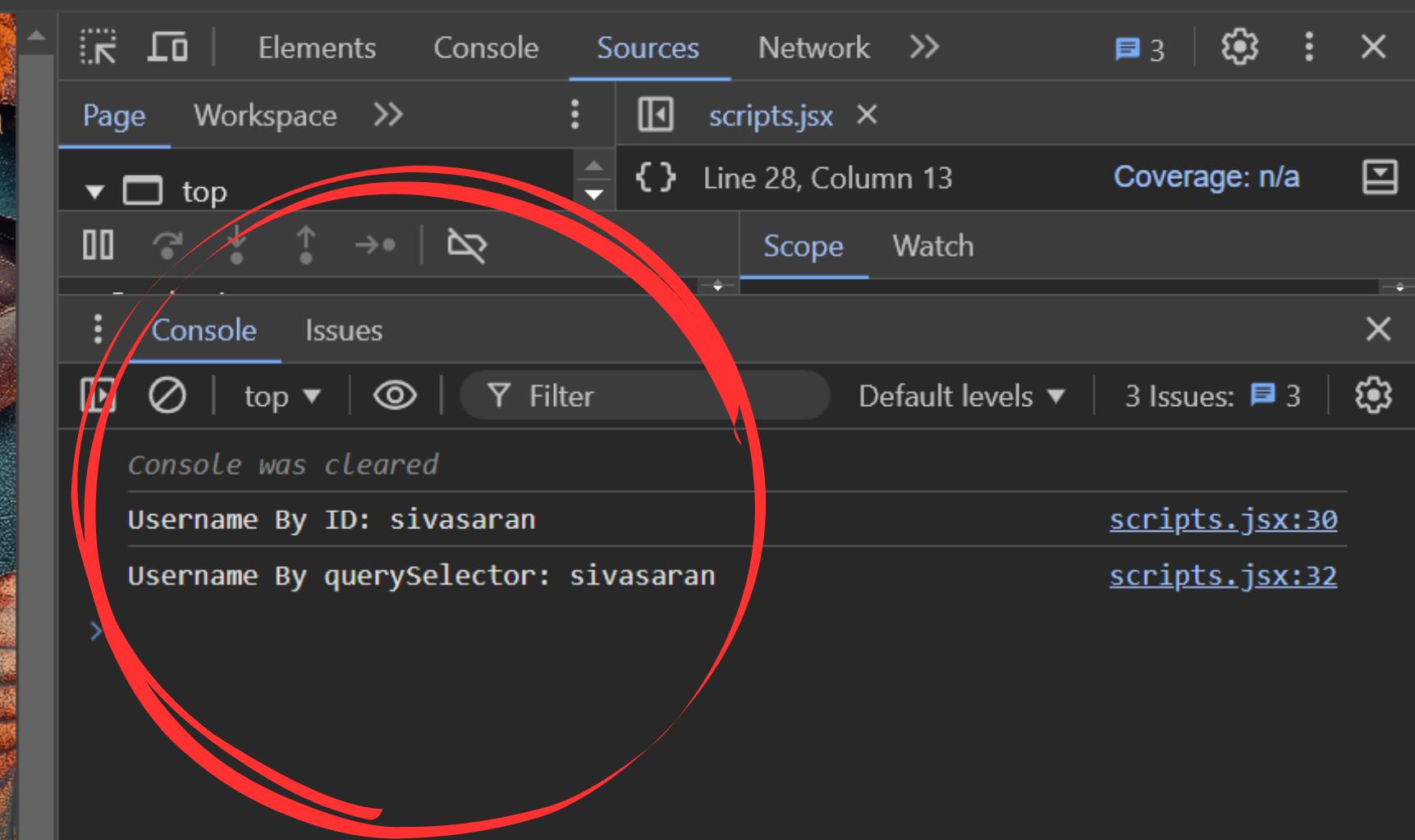
```
<label for="Username">User Name</label>
<input type="text" id="Username" placeholder="Full name" oninput="n(this)"><br>
<label for="email">E-mail</label>
<input type="email" class="m" id="email" placeholder="Mail" oninput="mail(this)"><br>
```

The form contains the following fields:

- User Name: sivasaran
- E-mail: Mail
- Password: Strong Password
- File Upload: Choose File No file chosen

```
function n(input) {
  console.clear();
  const username = document.getElementById("Username").value
  console.log("Username By ID:", username);
  const querySelector = document.querySelector("#Username").value;
  console.log("Username By querySelector:", querySelector);
}

function mail(input) {
  console.clear();
  const emailByClass = document.getElementsByClassName("m")[0].value;
  console.log("class:", emailByClass);
  const QuerySelector = document.querySelector(".m").value;
  console.log("querySelector:", QuerySelector);
}
```



Selectors

QuerySelectorAll

It's a PC device

HTML

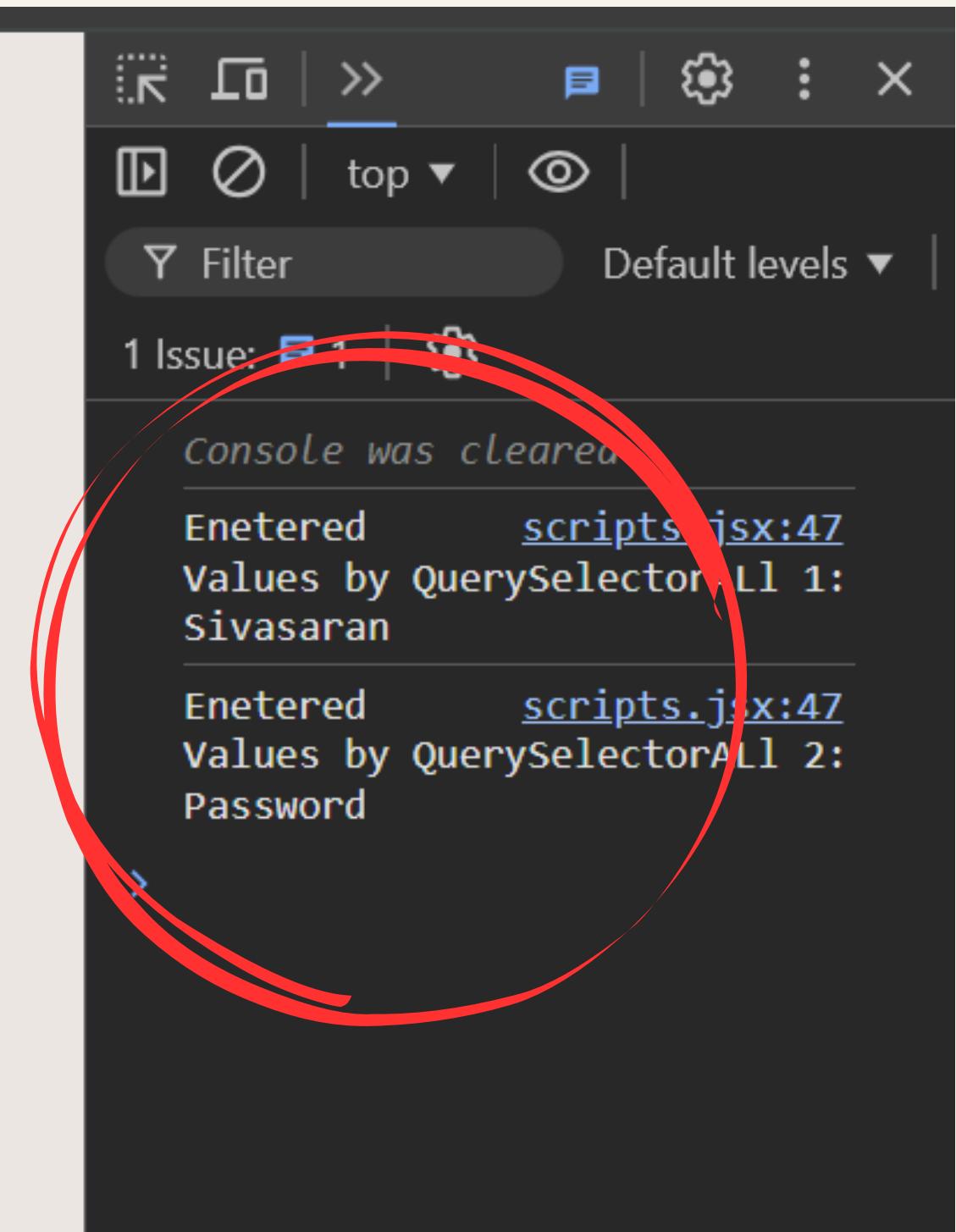
```
<label for="UserName">User Name</label>
<input id="UserName" class="x" type="text" placeholder="Enter your
username" required><br>

<label for="password">Password</label>
<input id="password" class="x" type="password" placeholder="Enter
your password" required><br>
```

JAVASCRIPT:

```
function xx() { // Corrected 'functions' to 'function'
  const x = document.querySelectorAll(".x"); // Select all elements
  with class "x"
  console.clear();

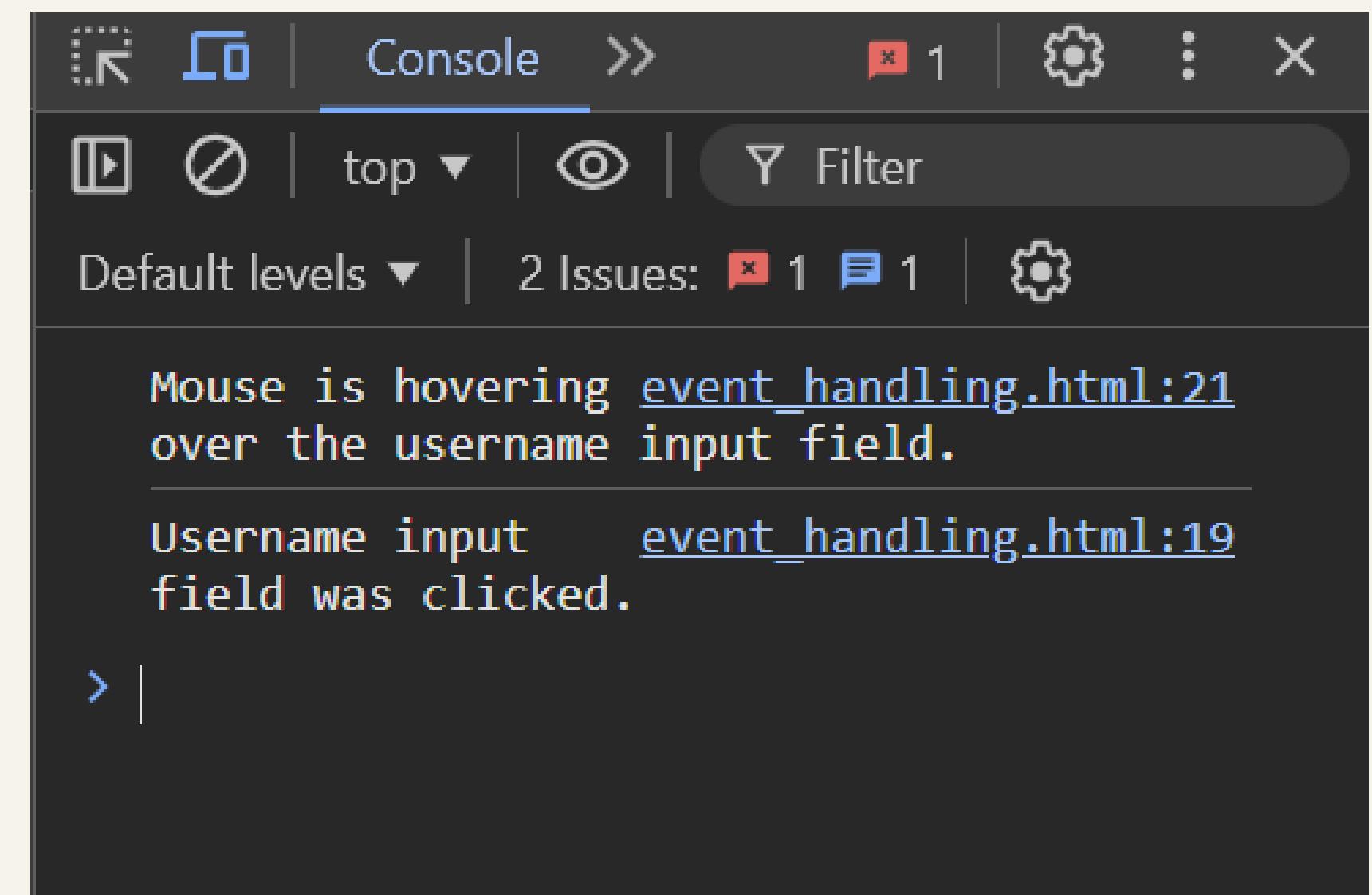
  // Log the values of each input field
  x.forEach((val, i) => {
    console.log(`Enetered Values by QuerySelectorAll ${i + 1}:`,
    val.value); // Log the value of each input
  });
}
```



Event handling sample

```
<fieldset class="Sample">
  <form>
    <h2>Login</h2>
    <label for="UserName">User Name</label>
    <input class="x" type="text" placeholder="Enter your username" required><br>
  </form>
</fieldset>

<script>
  function x(event) {console.log(`Username input field was clicked.`);}
  function y(event) {console.log(`Mouse is hovering over the username input field.`)}
  const usernameInput = document.querySelector(".x");
  usernameInput.addEventListener("click", x);
  usernameInput.addEventListener("mouseover", y);
</script>
```



Task 5

25 OCT 2024

Class Sample

```
<!DOCTYPE html>
<html>
<body>
<p id="1">Hi</p>

<script>
class Xxx {
    constructor(x, y) {
        this.run = x;
        this.fun = y;
    }

    sample() { // Removed 'function' keyword, corrected method syntax
        return this.run + this.fun;
    }
}

let summa = new Xxx(4, 4); // Create an instance of Xxx
document.getElementById("1").innerHTML = "Sum: " + summa.sample();
</script>

</body>
</html>
```

Output:

Sum: 8

Class Inheritance

HTML

```
<!DOCTYPE html>
<html>
<body>
<p id="1">Hi</p>

</body>
</html>
```

JS

```
<script>
  class Student {
    constructor(name) {
      this.n = name;
    }
    fun1(x, y) {
      return this.n + " is a topper";
    }
  }

  class Marks extends Student {
    constructor(name, marks) {
      super(name); // Calls the parent class constructor
      this.m = marks;
    }
    fun2(z, a) {
      return this.n + " has scored " + this.m + " , Wow !";
    }
  }

  let xx = new Marks("Siva", 50);
  document.getElementById("1").innerHTML = xx.fun2(2, 3) ;
</script>
```

Output:

Siva has scored 50 , Wow !

Add a little bit of body
text

Form Validation By Script

HTML

```
<body>
<fieldset>
<form action="/submit" method="POST">
  <h2 style="color: #ffffff; text-shadow: 2px 2px 5px rgb(13, 248, 29);>Registration</h2>
  <label for="Username">User Name</label>
  <input type="text" id="Username" placeholder="Full name" oninput="n(this)"><br>
  <label for="email">E-mail</label>
  <input type="email" class="m" id="email" placeholder="Mail" oninput="mail(this)"><br>
  <label for="password">Password</label>
  <input type="password" id="password" placeholder="Strong Password"><br>
  <label>File Upload</label>
  <input type="file" id="fileload" onchange="max_size(this)"><br>
  <label for="date">Date</label>
  <input type="date" id="date"><br>

  <div class="gender-group">
    <label class="gender-label">Gender:</label>
    <label for="m"><input type="radio" id="m" name="Gender"> Male</label>
    <label for="f"><input type="radio" id="f" name="Gender"> Female</label>
    <label for="o"><input type="radio" id="o" name="Gender"> Other</label>
  </div>
  <div class="checkbox-group">
    <input type="checkbox" id="terms" required>
    <label for="terms">Agree to terms and conditions</label>
  </div>
  <button type="submit">Submit</button>
  <div class="device-label"></div>
</form> </fieldset></body>
```

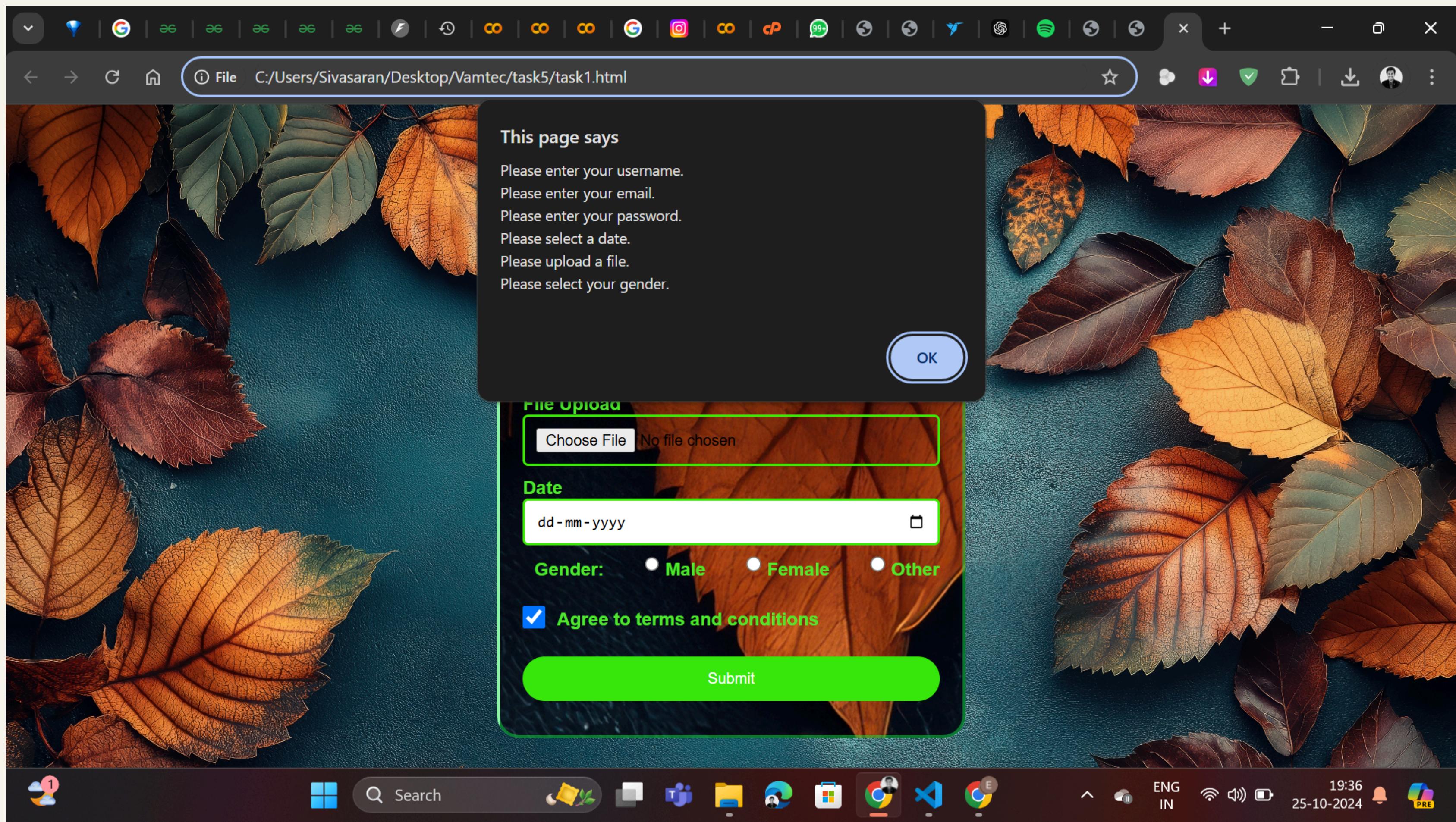
JS

```
document.addEventListener("DOMContentLoaded", function() {
  document.querySelector("form").addEventListener("submit", function(event) {
    let errorMessage = "";
    const username = document.getElementById("Username").value.trim();
    const email = document.getElementById("email").value.trim();
    const password = document.getElementById("password").value.trim();
    const date = document.getElementById("date").value.trim();
    const file = document.getElementById("fileload").files.length;
    const gender = document.querySelector("input[name='Gender']:checked");
    const terms = document.getElementById("terms").checked;

    if (!username || !email || !password || !date || file === 0 || !gender || !terms) {
      if (!username) errorMessage += "Please enter your username.\n";
      if (!email) errorMessage += "Please enter your email.\n";
      if (!password) errorMessage += "Please enter your password.\n";
      if (!date) errorMessage += "Please select a date.\n";
      if (file === 0) errorMessage += "Please upload a file.\n";
      if (!gender) errorMessage += "Please select your gender.\n";
      if (!terms) errorMessage += "You must agree to the terms and conditions.\n";

      alert(errorMessage);
      event.preventDefault();
    }
  });
});
```

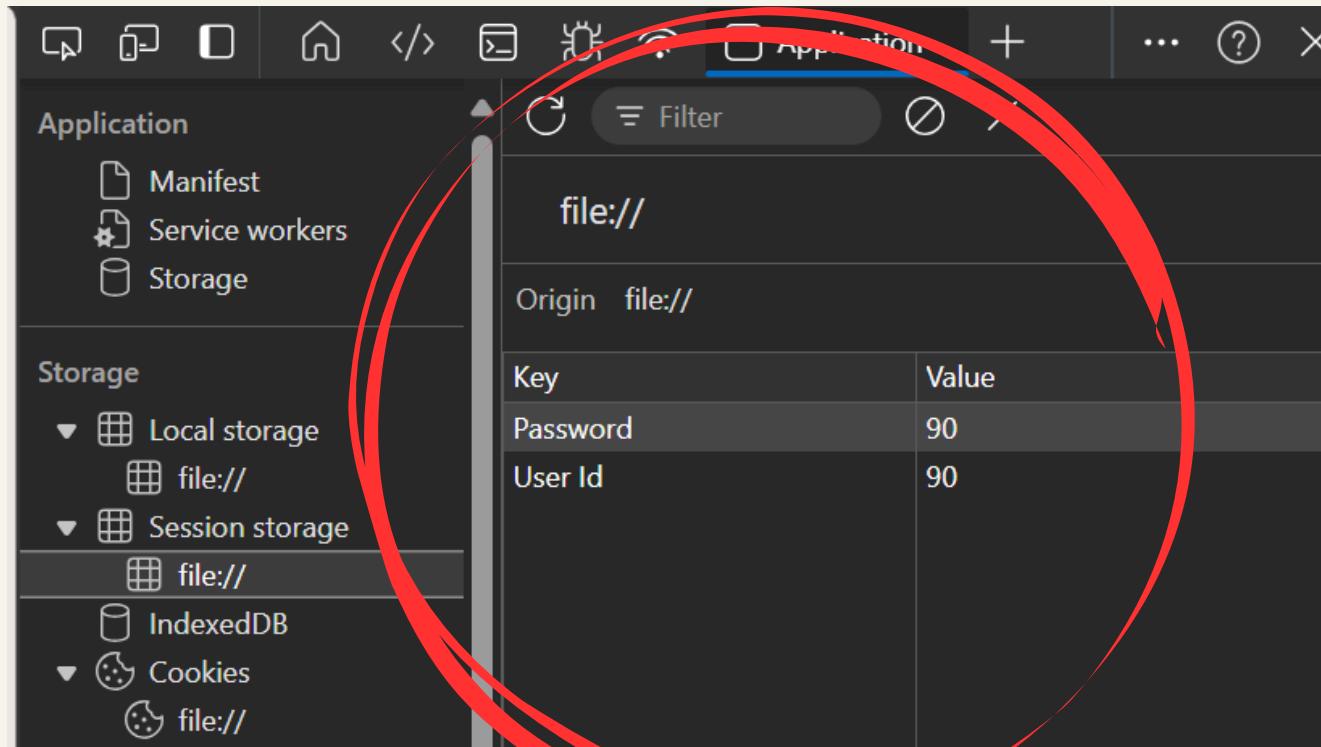
Output:



Session, local storage & Cookies

HTML

```
<fieldset class="Sample">
<form>   <h2> Login</h2>
  <label for="UserName">User Name</label>
  <input id="UserName" class="x" type="text"
placeholder="Enter your username" required><br>
  <label for="password">Password</label>
  <input id="password" class="x" type="password"
placeholder="Enter your password" required><br>
  <button type="button" onclick="xx();
storage(event);">Login</button>
  <div class="device-label"></div>
</form> </fieldset>
```



```
function storage(event) {
  event.preventDefault();

  var id = document.getElementById("UserName").value;
  var password = document.getElementById("password").value;
  sessionStorage.setItem("User Id", id);
  sessionStorage.setItem("Password", password);
  localStorage.setItem("User Id", id);
  localStorage.setItem("Password", password);
  document.cookie = `User ID=${id}; path=/; SameSite=Lax`;
  document.cookie = `Password=${password}; path=/; SameSite=Lax`;
  alert("Form data has been saved to sessionStorage, localStorage, and
cookies!");
  console.log("sessionStorage:", sessionStorage.getItem("User Id"),
sessionStorage.getItem("Password"));
  console.log("localStorage:", localStorage.getItem("User Id"),
localStorage.getItem("Password"));

}
```

THANK YOU

Presented By :Sivasaran