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Practical No: 5

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Aim:

### THEORY:

Q) Implement DOM manipulation to demonstrate a login form

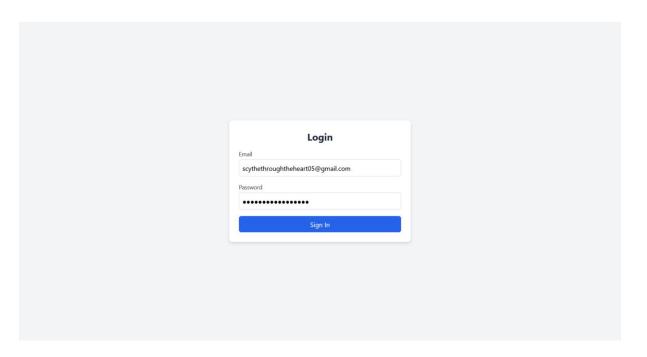
### CODE:

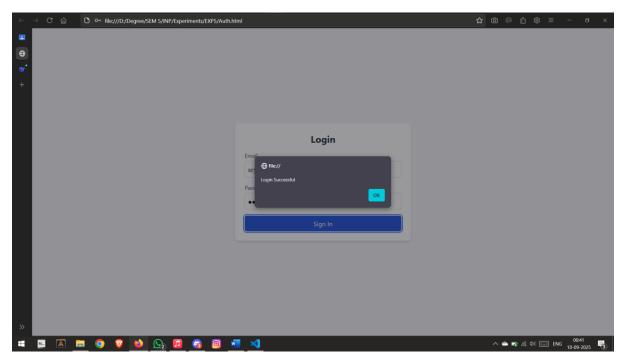
```
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
        <title>Login</title>
        link
            href="https://cdn.jsdelivr.net/npm/tailwindcss@2.2.19/dist/tailwind.min
.css"
            rel="stylesheet"
        />
    </head>
    <body
        class="w-screen h-screen flex flex-row justify-center items-center bg-gray-
100"
        <form
            class="flex flex-col gap-4 w-full max-w-md p-6 bg-white rounded-lg
shadow-md"
        >
```

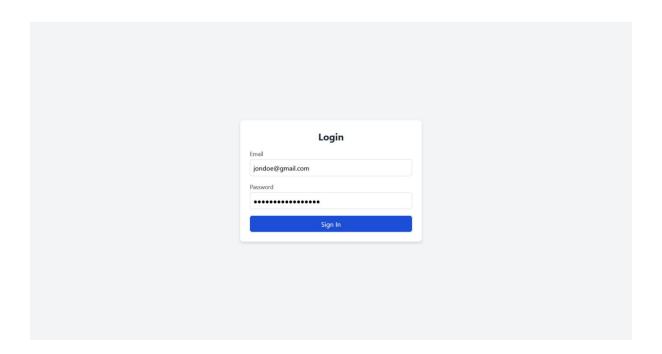
```
<h1 class="text-2xl font-bold text-center text-gray-800">Login</h1>
            <div class="flex flex-col gap-1">
                <label for="email" class="text-sm font-medium text-gray-700"</pre>
                    >Email</label
                >
                <input
                    id="email"
                    name="email"
                    type="email"
                    required
                    class="border border-gray-300 p-2 rounded-md focus:outline-none
focus:ring-2 focus:ring-blue-500"
                    placeholder="Enter your email"
                />
            </div>
            <div class="flex flex-col gap-1">
                <label for="password" class="text-sm font-medium text-gray-700"</pre>
                    >Password</label
                >
                <input
                    id="password"
                    name="password"
                    type="password"
                    required
                    class="border border-gray-300 p-2 rounded-md focus:outline-none
focus:ring-2 focus:ring-blue-500"
                    placeholder="Enter your password"
                />
            </div>
            <button
                type="submit"
                class="bg-blue-600 hover:bg-blue-700 text-white font-medium py-2
px-4 rounded-md transition-colors duration-200 focus:outline-none focus:ring-2
focus:ring-blue-500 focus:ring-offset-2"
                Sign In
            </button>
            <!-- <p class="text-center text-sm text-gray-600 mt-4">
```

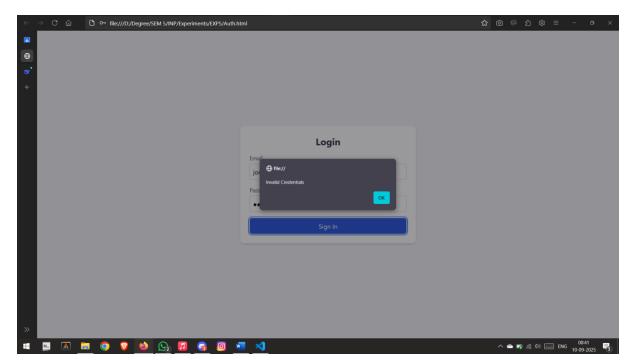
```
Demo credentials:<br />
                Email: scythethroughtheheart05@gmail.com<br />
                Password: iLoveGymMommies05
             -->
        </form>
        <script>
            document
                .querySelector("form")
                .addEventListener("submit", function (e) {
                    e.preventDefault();
                    const email = document.getElementById("email").value;
                    const password = document.getElementById("password").value;
                    if (email.length === 0 || password.length === 0) {
                        alert("Please fill in all fields");
                        return;
                    }
                    if (
                        email === "scythethroughtheheart05@gmail.com" &&
                        password === "iLoveGymMommies05"
                    ) {
                        alert("Login Successful");
                    } else {
                        alert("Invalid Credentials");
                    }
                });
        </script>
    </body>
</html>
```

# OUTPUT:









Q) Implement an age calculator

## CODE:

```
<meta charset="UTF-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
        <title>Age Calculator</title>
        k
            href="https://cdn.jsdelivr.net/npm/tailwindcss@2.2.19/dist/tailwind.min
.css"
            rel="stylesheet"
        />
    </head>
    <body class="w-screen h-screen flex flex-row justify-center items-center">
            class="flex flex-col gap-4 w-full max-w-md bg-white p-8 rounded-lg
shadow-md"
        >
            <h1 class="text-3xl font-bold text-center text-gray-800 mb-4">
                Age Calculator
            </h1>
            <div class="flex flex-col gap-1">
                <label for="dob" class="text-gray-700">Date of Birth</label>
                <input
                    id="dob"
                    type="date"
                    class="border border-gray-300 p-2 rounded-md focus:outline-
none"
                    max=""
                />
            </div>
            <button
                type="button"
                onclick="calculateAge()"
                class="mt-4 text-black font-medium py-2 px-4 rounded-md transition
duration-200"
                Calculate Age
            </button>
            <div id="result" class="mt-6 p-4 rounded-md hidden">
                <h2 class="text-xl font-semibold">Your Age</h2>
                <div class="mt-2 grid grid-cols-3 gap-4 text-center">
                    <div>
```

```
0
            Years
         </div>
         <div>
            0
            Months
         </div>
         <div>
            0
            Days
         </div>
      </div>
   </div>
</form>
<script>
   document.getElementById("dob").max = new Date()
      .toISOString()
      .split("T")[0];
   function calculateAge() {
      const dobInput = document.getElementById("dob");
      const resultDiv = document.getElementById("result");
      if (!dobInput.value) {
         alert("Please select your date of birth");
         return;
      }
      const dob = new Date(dobInput.value);
      const today = new Date();
      let years = today.getFullYear() - dob.getFullYear();
      let months = today.getMonth() - dob.getMonth();
      let days = today.getDate() - dob.getDate();
      if (days < 0) {
         months--;
         const lastMonth = new Date(
            today.getFullYear(),
            today.getMonth(),
```

```
0
                    );
                    days += lastMonth.getDate();
                }
                if (months < 0) {
                    years--;
                    months += 12;
                }
                document.getElementById("years").textContent = years;
                document.getElementById("months").textContent = months;
                document.getElementById("days").textContent = days;
                resultDiv.classList.remove("hidden");
            }
        </script>
    </body>
</html>
```

### **OUTPUT:**



