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Practical No: 5

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Aim: Implementation of Java Script ES6.

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.cs
s"
      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"
        >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"
```

```

        >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
    </p> -->
</form>

```

```

<script>
    document
        .querySelector("form")
        .addEventListener("submit",
function (e) {
            e.preventDefault();

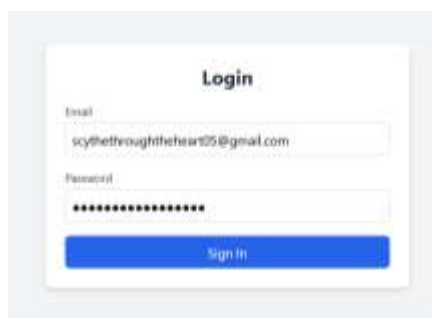
            const email =
document.getElementById("email").value;
            const password =
document.getElementById("password").value;

            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:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport"
content="width=device-width, initial-
scale=1.0" />
    <title>Age Calculator</title>
    <link
      href="https://cdn.jsdelivr.net/
npm/tailwindcss@2.2.19/dist/tailwind.min.cs
s"
      rel="stylesheet"
    />
  </head>
  <body class="w-screen h-screen flex
flex-row justify-center items-center">
    <form
      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>
          <p class="text-4xl
font-bold" id="years">0</p>
          <p class="text-
black">Years</p>
        </div>
        <div>
          <p class="text-4xl
font-bold" id="months">0</p>
          <p class="text-
black">Months</p>
        </div>
      </div>
    </div>
```

```

        <div>
            <p class="text-4xl
font-bold" id="days">0</p>
            <p class="text-
black">Days</p>
        </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("ye
ars").textContent = years;
        document.getElementById("mo
nths").textContent = months;
        document.getElementById("da
ys").textContent = days;

        resultDiv.classList.remove(
"hidden");
    }
</script>
</body>
</html>

```

## OUTPUT:

**Age Calculator**

Date of Birth  
17/01/2005

Calculate Age

**Your Age**

**20** Years  
**7** Months  
**24** Days