

Day31

Assignment 1: Create a JavaScript object representing a user with properties for name, email, and age. Write functions that manipulate this object, such as changing the name, updating the email, and calculating the user's birth year.

A)

Index.html

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>User Object Manipulation</title>

</head>

<body>

  <h1>User Object Manipulation</h1>


  <div>

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

    <input type="text" id="name">

  </div>

  <div>

    <label for="email">Email:</label>

    <input type="email" id="email">

  </div>

  <div>

    <label for="age">Age:</label>

    <input type="number" id="age">

  </div>

</body>

</html>
```

```
</div>

<button onclick="changeName()">changeName</button>

<button onclick="updateEmail()">updateEmail</button>

<button onclick="calculateBirthYear()">calculateBirthYear</button>
```

```
<h2>Output</h2>

<pre id="output"></pre>
```

```
<script src="Ass1.js"></script>
```

```
</body>
```

```
</html>
```

Script.js

```
// User object
let user = {
  name: "John Doe",
  email: "john.doe@example.com",
  age: 30
};

// Function to change the user's name
function changeName() {
  let newName = document.getElementById('name').value;
  if (newName) {
    user.name = newName;
    displayUser();
  } else {
    alert('Please enter a name.');
```

```
  }
}

// Function to update the user's email
function updateEmail() {
  let newEmail = document.getElementById('email').value;
  if (newEmail) {
    user.email = newEmail;
    displayUser();
  } else {
    alert('Please enter an email.');
```

```
  }
}
```

```
// Function to calculate the user's birth year
function calculateBirthYear() {
    let currentYear = new Date().getFullYear();
    let birthYear = currentYear - user.age;
    document.getElementById('output').textContent = `User's birth year: ${birthYear}`;
}

// Function to display the user object
function displayUser() {
    document.getElementById('output').textContent = JSON.stringify(user, null, 2);
}

// Initial display of the user object
displayUser();
```