

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.

HTML:

```
<!DOCTYPE html>
<html>
<body>

<h1>The script src attribute</h1>

<script src="demo.js">
</script>

</body>
</html>
```

JAVASCRIPT:

```
let user = {
  name: 'John Doe',
  email: 'johndoe@example.com',
  age: 30,

  // Function to change the name of the user
  changeName: function(newName) {
    this.name = newName;
  },

  // Function to update the email of the user
  updateEmail: function(newEmail) {
    this.email = newEmail;
  },
}
```

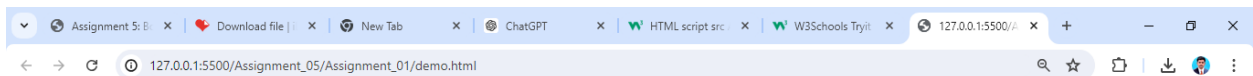
```
// Function to calculate the birth year of the user
calculateBirthYear: function() {
    const currentYear = new Date().getFullYear();
    return currentYear - this.age;
}
};

// Example usage:
console.log("Original User:");
console.log(user);

// Changing the name
user.changeName('Jane Doe');
console.log("\nUser after changing name:");
console.log(user);

// Updating the email
user.updateEmail('janedoe@example.com');
console.log("\nUser after updating email:");
console.log(user);

// Calculating the birth year
const birthYear = user.calculateBirthYear();
console.log("\nBirth Year calculated:");
console.log(birthYear);
```



The script src attribute

Assignment 2:

Use regular expressions in JavaScript to validate the email address entered in the form. It should check for the correct format of the email and display a message to the user if the format is incorrect.

Javascript:

```
function validateEmail(email) {  
    // Regular expression for basic email validation  
    const regex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;  
  
    // Test the provided email against the regular expression  
    if (regex.test(email)) {  
        return true; // Valid email  
    } else {  
        return false; // Invalid email  
    }  
}  
  
// Example usage:  
let userEmail = "example@example.com";  
if (validateEmail(userEmail)) {  
    console.log("Email is valid.");  
} else {  
    console.log("Email is invalid.");  
}
```