

**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.**

```
let user = {  
  name: "UDAYAKUMAR",  
  email: "udhya2001@kumar.com",  
  age: 30,  
  
  changeName: function(newName) {  
    this.name = newName;  
  },  
  
  updateEmail: function(newEmail) {  
    this.email = newEmail;  
  },  
  
  calculateBirthYear: function(currentYear) {  
    return currentYear - this.age;  
  },  
  
  displayDetails: function() {  
    console.log("Name:", this.name);
```

```
        console.log("Email:", this.email);
        console.log("Age:", this.age);
    }
};
```

```
console.log("Initial User Details:");
user.displayDetails();
```

```
user.changeName("uday");
user.updateEmail("udhya2000@example.com");
```

```
let currentYear = new Date().getFullYear();
let birthYear = user.calculateBirthYear(currentYear);
```

```
console.log("\nUpdated User Details:");
user.displayDetails();
console.log("Birth Year:", birthYear);
```

## OUTPUT:

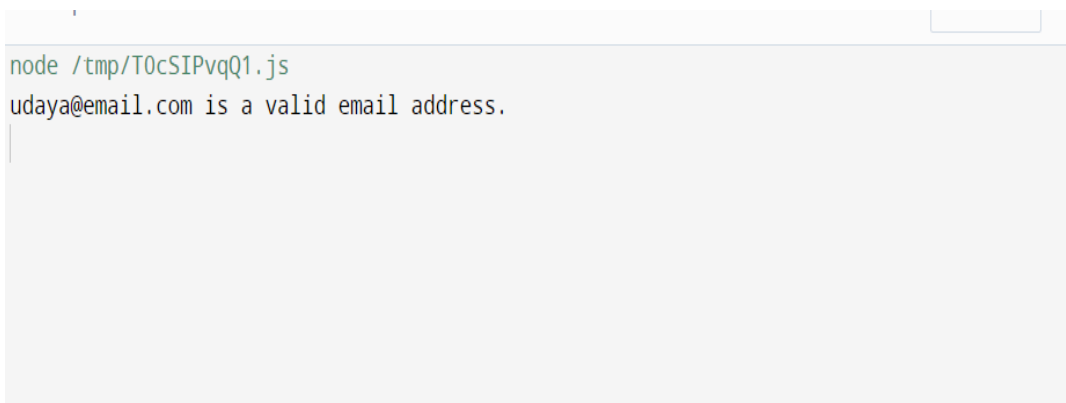
```
node /tmp/opoSRjqVM4.js
Initial User Details:
Name: UDAYAKUMAR
Email: udhya2001@kumar.com
Age: 30

Updated User Details:
Name: uday
Email: udhya2000@example.com
Age: 30
Birth Year: 1994
|
```

**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.**

```
function validateEmail(email) {  
  
    const re = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;  
    return re.test(email);  
}  
  
const email = "udaya@email.com";  
if (validateEmail(email)) {  
    console.log(`${email} is a valid email address.`);  
} else {  
    console.log(`${email} is not a valid email address.`);  
}
```

## OUTPUT:

A screenshot of a terminal window with a light gray background. The prompt is 'node /tmp/T0cSIPvqQ1.js'. The output is 'udaya@email.com is a valid email address.' followed by a cursor.

```
node /tmp/T0cSIPvqQ1.js  
udaya@email.com is a valid email address.  
|
```