Name: Vaishali Kale

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JavaScript Assignments

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.

Solution::::

```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>
    <script>
      // Create a user object
      var user = {
        name: "Vaishali Kale",
        email: "vaishali@gmail.com",
        age: 25
      };

      // Function to change the user's name
      function changeName(newName) {
        user.name = newName;
        console.log("Name changed to: " + user.name);
      }

      // Function to update the user's email
      function updateEmail(newEmail) {
        user.email = newEmail;
        console.log("Email updated to: " + user.email);
      }

      // Function to calculate the user's birth year
      function calculateBirthYear() {
        var currentYear = new Date().getFullYear();
        var birthYear = currentYear - user.age;
        console.log("User's birth year: " + birthYear);
        return birthYear;
      }

      // Example usage of the functions
```

```
      console.log("Initial user object:", user);
      changeName("Vaishu Kale");
      updateEmail("Vaishu@gmail.com");
      calculateBirthYear();
    </script>
  </head>
  <body>
    <h1>User Object Manipulation</h1>
    <p>Open the console to see the output of the functions.</p>
  </body>
</html>
```

Solution::::

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
    <script>
      function validateForm() {
        var un = document.myform.txtun.value;
        var pwd = document.myform.txtpsw.value;
        var email = document.myform.txtemail.value;
        var emailPattern = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,6}$/;

        if (un == null || un == "") {
          alert("Username is mandatory");
          return false;
        }
        if (pwd.length < 6) {
          alert("Password should be at least 6 characters");
          return false;
        }
        if (!emailPattern.test(email)) {
          alert("Please enter a valid email address");
          return false;
        }
      }
    </script>
  </head>
  <body>
    <form name="myform" action="welcome.html" onsubmit="return validateForm()">
      <div>
        <label for="txtun">Username:</label>
        <input type="text" name="txtun" placeholder="Enter your Username" />
      </div>
      <br />
      <div>
        <label for="txtpsw">Password:</label>
        <input type="password" name="txtpsw" placeholder="Enter your Password" />
      </div>
      <br />
      <div>
```
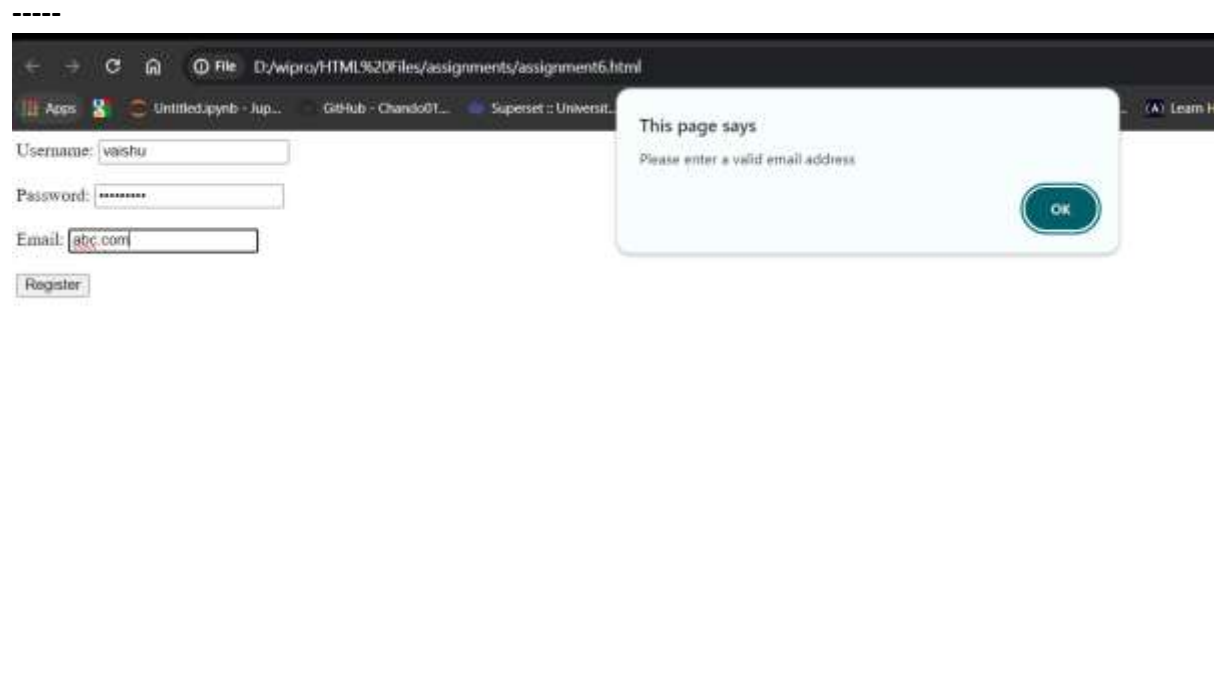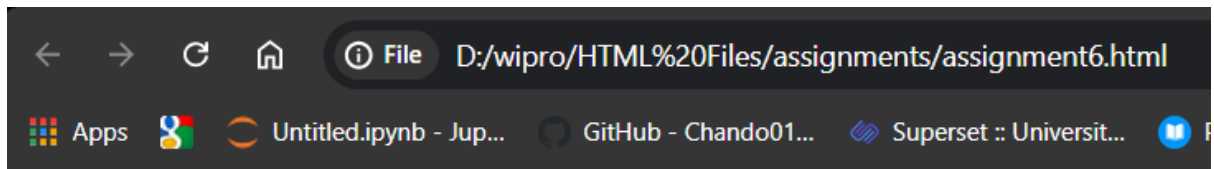
```html
        <label for="txtemail">Email:</label>
        <input type="text" name="txtemail" placeholder="Enter your Email" />
      </div>
      <br />
      <input type="submit" value="Register" />
    </form>
  </body>
</html>
```

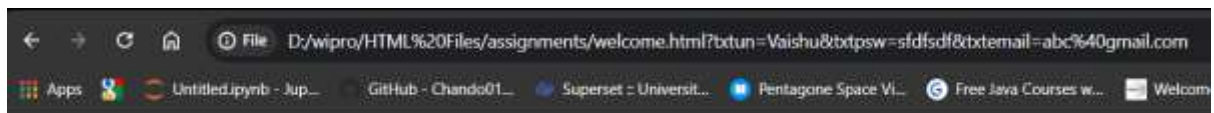

After Entering correct details the output is below:::

Username: Vaishu

Password: ••••••••

Email: abc@gmail.com

Register

← → C ⌂ ⓘ File D:/wipro/HTML%20Files/assignments/welcome.html?txtun=Vaishu&txtpsw=sfdfsdf&txtemail=abc%40gmail.com

Apps G ○ Untitled.ipynb - Jup...   GitHub - Chando01...   Superset :: Universit... Ⓜ Pentagone Space Vi... Ⓖ Free Java Courses w... ▦ Welcom

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