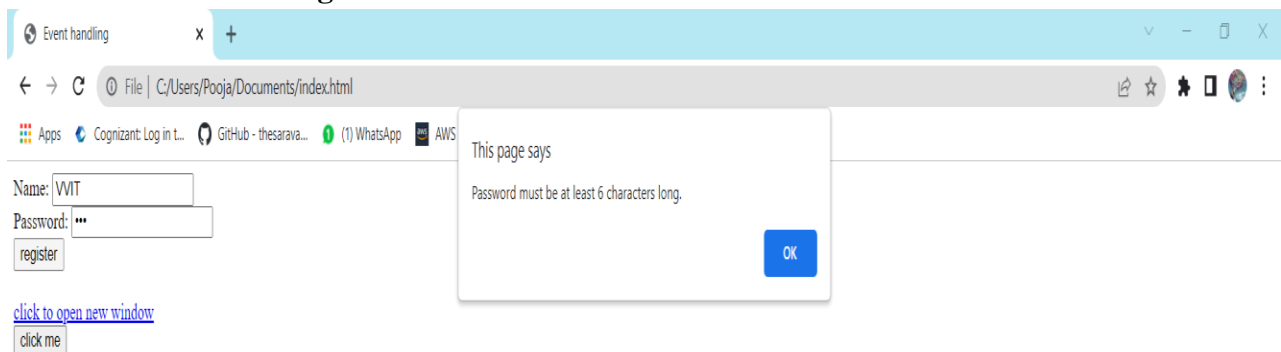


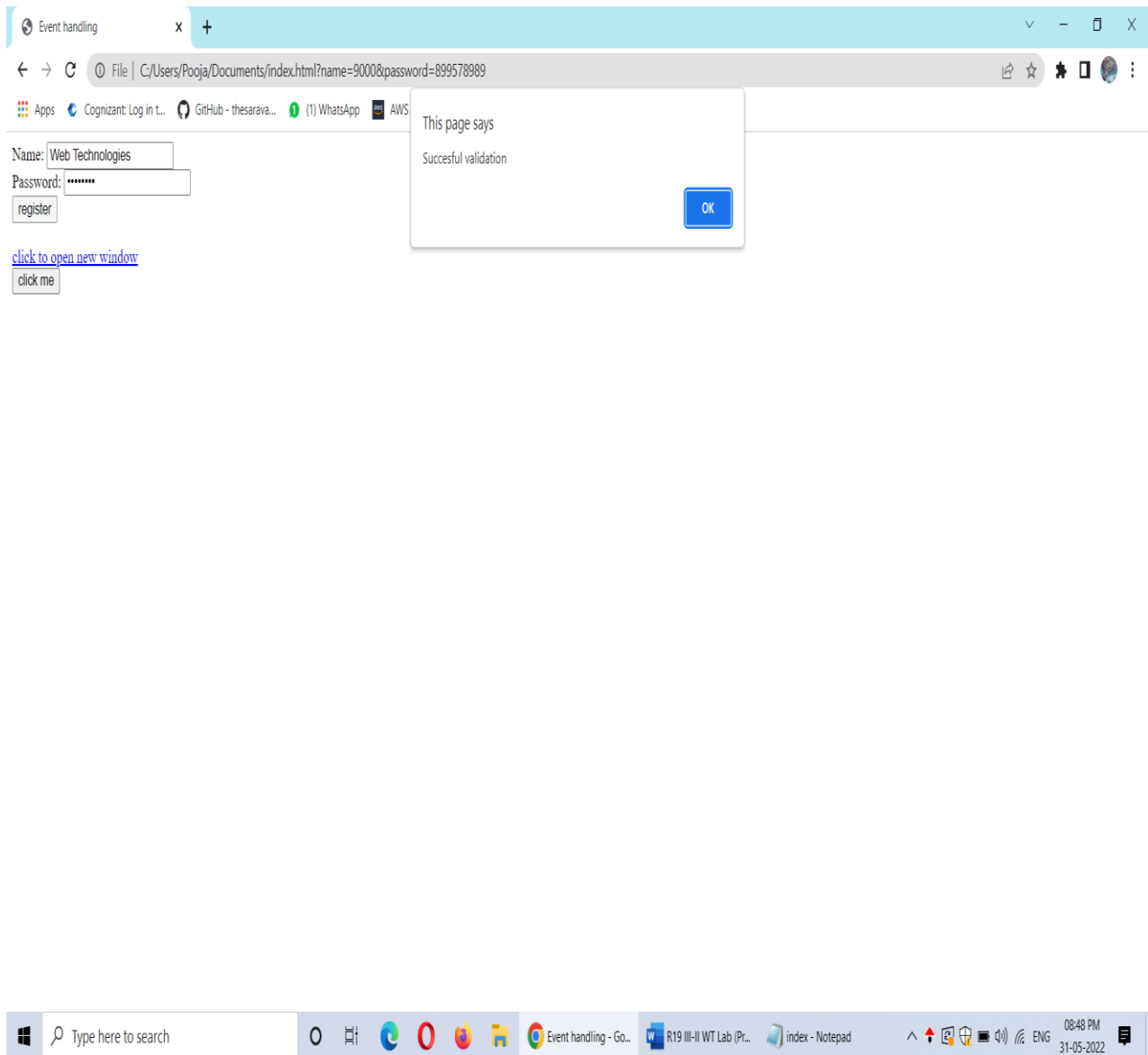
**5) Write JavaScript programs on Event Handling****a. Validation of registration form****b. Open a Window from the current window****c. Change color of background at each click of button or refresh of a page****d. Display calendar for the month and year selected from combo box****e. On Mouse over event****Program**

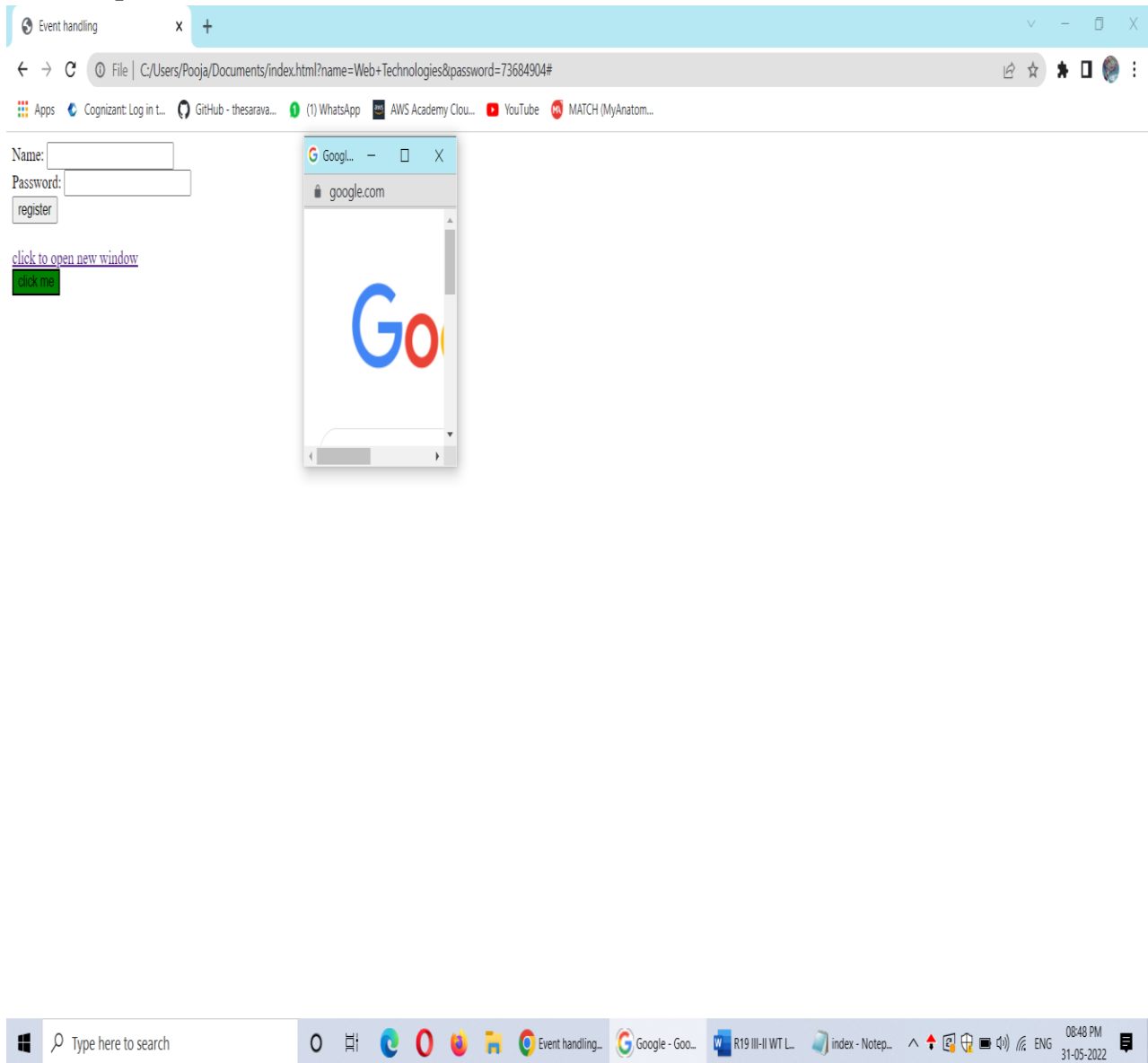
```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Event handling</title>
</head>
<body>
    <form name="myform" onsubmit="return validateform()" >
        Name: <input type="text" name="name"><br/>
        Password: <input type="password" name="password"><br/>
        <input type="submit" value="register">
    </form>
    <br>
    <a href="#" onclick="wn()">click to open new window</a>
    <br>
    <button id="color" onclick="change()" onmouseover="mouseevent()">click me</button>
</body>
<script type="text/javascript">
    function validateform(){
        var name=document.myform.name.value;
        var password=document.myform.password.value;
        if (name==null || name==""){
            alert("Name can't be blank");
            return false ;
        }else if(password.length<6){
            alert("Password must be at least 6 characters long.");
            return false ;
        }
        alert("Succesful validation");
    }
    function wn(){
        var mm=window.open('http://www.google.com','newwindow','width=200, height=200',
        "_blank");
    }
</script>
```

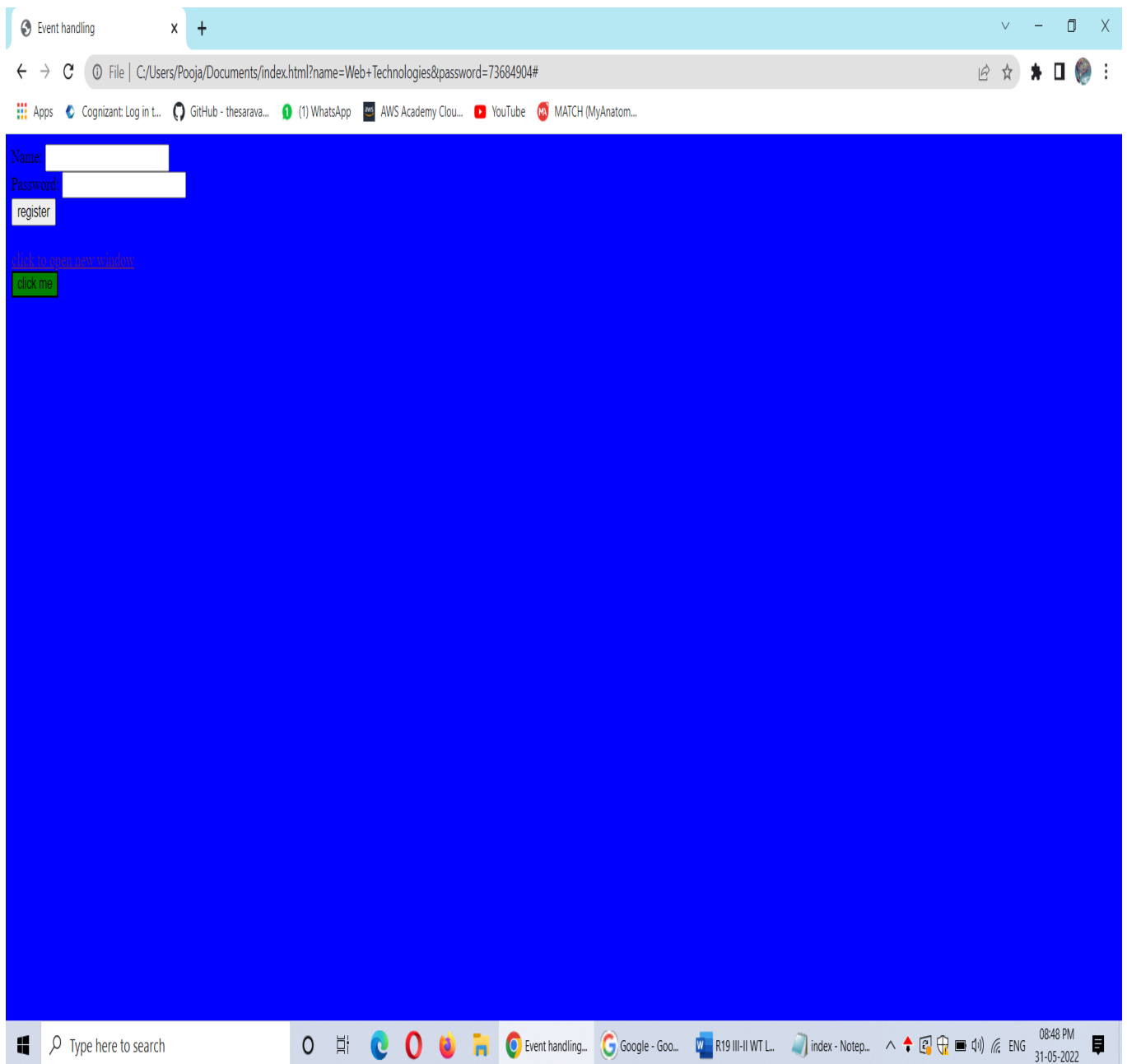
```
}  
function change(){  
    document.body.style.backgroundColor = 'aliceblue';  
}  
function mouseevent(){  
    document.getElementById("color").style.background="green";  
}  
</script>  
</html>
```

### a. Validation of registration form





**b. Open a Window from the current window**

**c. Change color of background at each click of button or refresh of a page**

**d. Display calendar for the month and year selected from combo box****index.html**

```
</head>
<body>
<div class="container col-sm-4 col-md-7 col-lg-4 mt-5">
  <div class="card">
    <h3 class="card-header" id="monthAndYear"></h3>
    <table class="table table-bordered table-responsive-sm" id="calendar">
      <thead>
        <tr>
          <th>Sun</th>
          <th>Mon</th>
          <th>Tue</th>
          <th>Wed</th>
          <th>Thu</th>
          <th>Fri</th>
          <th>Sat</th>
        </tr>
      </thead>

      <tbody id="calendar-body">

    </tbody>
    </table>

    <div class="form-inline">

      <button class="btn btn-outline-primary col-sm-6" id="previous"
onclick="previous()">Previous</button>

      <button class="btn btn-outline-primary col-sm-6" id="next" onclick="next()">Next</button>
    </div>
    <br/>
    <form class="form-inline">
      <label class="lead mr-2 ml-2" for="month">Jump To: </label>
      <select class="form-control col-sm-4" name="month" id="month" onchange="jump()">
        <option value=0>Jan</option>
        <option value=1>Feb</option>
        <option value=2>Mar</option>
        <option value=3>Apr</option>
        <option value=4>May</option>
```

```
<option value=5>Jun</option>
<option value=6>Jul</option>
<option value=7>Aug</option>
<option value=8>Sep</option>
<option value=9>Oct</option>
<option value=10>Nov</option>
<option value=11>Dec</option>
</select>
```

```
<label for="year"></label><select class="form-control col-sm-4" name="year" id="year"
onchange="jump()">
  <option value=1990>1990</option>
  <option value=1991>1991</option>
  <option value=1992>1992</option>
  <option value=1993>1993</option>
  <option value=1994>1994</option>
  <option value=1995>1995</option>
  <option value=1996>1996</option>
  <option value=1997>1997</option>
  <option value=1998>1998</option>
  <option value=1999>1999</option>
  <option value=2000>2000</option>
  <option value=2001>2001</option>
  <option value=2002>2002</option>
  <option value=2003>2003</option>
  <option value=2004>2004</option>
  <option value=2005>2005</option>
  <option value=2006>2006</option>
  <option value=2007>2007</option>
  <option value=2008>2008</option>
  <option value=2009>2009</option>
  <option value=2010>2010</option>
  <option value=2011>2011</option>
  <option value=2012>2012</option>
  <option value=2013>2013</option>
  <option value=2014>2014</option>
  <option value=2015>2015</option>
  <option value=2016>2016</option>
  <option value=2017>2017</option>
  <option value=2018>2018</option>
  <option value=2019>2019</option>
  <option value=2020>2020</option>
```

```
<option value=2021>2021</option>
<option value=2022>2022</option>
<option value=2023>2023</option>
<option value=2024>2024</option>
<option value=2025>2025</option>
<option value=2026>2026</option>
<option value=2027>2027</option>
<option value=2028>2028</option>
<option value=2029>2029</option>
<option value=2030>2030</option>
</select></form>
</div>
</div>
<!--<button name="jump" onclick="jump()">Go</button>-->
<script src="scripts.js"></script>

</body>
</head>
```

scripts.js

```
today = new Date();
currentMonth = today.getMonth();
currentYear = today.getFullYear();
selectYear = document.getElementById("year");
selectMonth = document.getElementById("month");

months = ["Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec"];

monthAndYear = document.getElementById("monthAndYear");
showCalendar(currentMonth, currentYear);

function next() {
    currentYear = (currentMonth === 11) ? currentYear + 1 : currentYear;
    currentMonth = (currentMonth + 1) % 12;
    showCalendar(currentMonth, currentYear);
}

function previous() {
    currentYear = (currentMonth === 0) ? currentYear - 1 : currentYear;
    currentMonth = (currentMonth === 0) ? 11 : currentMonth - 1;
```



```
showCalendar(currentMonth, currentYear);
}

function jump() {
    currentYear = parseInt(selectYear.value);
    currentMonth = parseInt(selectMonth.value);
    showCalendar(currentMonth, currentYear);
}

function showCalendar(month, year) {

    let firstDay = (new Date(year, month)).getDay();

    tbl = document.getElementById("calendar-body"); // body of the calendar

    // clearing all previous cells
    tbl.innerHTML = "";

    // filing data about month and in the page via DOM.
    monthAndYear.innerHTML = months[month] + " " + year;
    selectYear.value = year;
    selectMonth.value = month;

    // creating all cells
    let date = 1;
    for (let i = 0; i < 6; i++) {
        // creates a table row
        let row = document.createElement("tr");

        //creating individual cells, filing them up with data.
        for (let j = 0; j < 7; j++) {
            if (i === 0 && j < firstDay) {
                cell = document.createElement("td");
                cellText = document.createTextNode("");
                cell.appendChild(cellText);
                row.appendChild(cell);
            }
            else if (date > daysInMonth(month, year)) {
                break;
            }
            else {
                cell = document.createElement("td");
```

**Roll no:**

**Experiment no: 5**

**Page no:**

```
        cellText = document.createTextNode(date);
        if (date === today.getDate() && year === today.getFullYear() && month ===
today.getMonth()) {
            cell.classList.add("bg-info");
        } // color today's date
        cell.appendChild(cellText);
        row.appendChild(cell);
        date++;
    }

}

tbl.appendChild(row); // appending each row into calendar body.
}

}

// check how many days in a month code from https://dzone.com/articles/determining-number-days-month
function daysInMonth(iMonth, iYear) {
    return 32 - new Date(iYear, iMonth, 32).getDate();
}
```

Roll no:

Experiment no: 5

Page no:



May 2022

Sun Mon Tue Wed Thu Fri Sat

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Previous Next

Jump To: May 2022



**e. On Mouse over event**