THIẾT KẾ WEB – ASSIGNMENT 05

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A01.html

```html
<!DOCTYPE html>
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
    <title>A01</title>
    <script type="text/javascript" src="A01.js"></script>
</head>
<body>
</body>
</html>
```

A01.js

```javascript
id = prompt("Mời bạn nhập MSSV: ");
Name = prompt("Mời bạn nhập Họ và tên: ");
Class = prompt("Mời bạn nhập Lớp: ");

var info = [id, Name, Class];

document.write("<table width='100%' border='1' cellspacing='0' cellpadding='0'>");

document.write("<tr><td colspan='3' align=center> Danh sách sinh viên </td></tr>");
document.write("<tr>");
document.write("<td align=center> MSSV </td>");
document.write("<td align=center> Họ tên </td>");
document.write("<td align=center> Lớp </td>");
document.write("</tr>");

document.write("<tr>");
for (i = 0; i < 3; i++)
{
    document.write("<td align=center>" + info[i] + "</td>");
}
document.write("</tr>");
document.write("</table>");
```
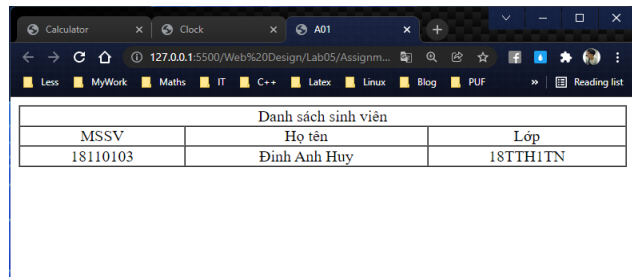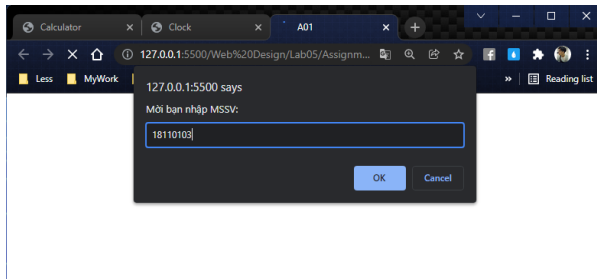
Result

A02.html

```html
<!DOCTYPE html>
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
    <title>A02</title>
    <link href="A02.css" rel="stylesheet" type="text/css" />
    <script type="text/javascript" src="A02.js"></script>
</head>
<body>
    <form action="" method="get" name="frmInvoice">
        <table cellpadding="0" cellspacing="0">
            <tr class="title">
                <td class="id"> STT </td>
                <td> Tên hàng </td>
                <td class="input"> Số lượng có </td>
                <td class="input"> Số lượng mua </td>
                <td class="input"> Đơn giá </td>
                <td class="chk"> Chọn mua </td>
            </tr>
            <tr>
                <td class="id"> 1 </td>
                <td> CPU </td>
                <td> <input name="SoLuongCo" id="A1" type="text" value="10"
readonly="readonly"/> </td>
                <td> <input name="SoLuongMua" id="B1" type="text"
onChange="chk(1)"/> </td>
                <td> <input name="DonGia" id="C1" type="text" value="100"
readonly="readonly"/> </td>
                <td class="chk"> <input id="chk1" type="checkbox"
onchange="check(1)"/> </td>
            </tr>
            <tr>
                <td class="id"> 2 </td>
                <td> RAM </td>
                <td> <input name="SoLuongCo" id="A2" type="text" value="10"
readonly="readonly"/> </td>
                <td> <input name="SoLuongMua" id="B2" type="text"
onchange="chk(2)"/> </td>
                <td> <input name="DonGia" id="C2" type="text" value="50"
readonly="readonly"/> </td>
```

```html
                    <td class="chk"> <input id="chk2" type="checkbox"
onchange="check(2)"/> </td>
            </tr>
            <tr>
                    <td class="id"> 3 </td>
                    <td> HDD </td>
                    <td> <input name="SoLuongCo" id="A3" type="text" value="10"
readonly="readonly"/> </td>
                    <td> <input name="SoLuongMua" id="B3" type="text"
onchange="chk(3)"/> </td>
                    <td> <input name="DonGia" id="C3" type="text" value="80"
readonly="readonly"/> </td>
                    <td class="chk"> <input id="chk3" name="ChonMua" type="checkbox"
onchange="check(3)"/> </td>
            </tr>
            <tr>
                    <td></td>
                    <td> <input type="button" value="OK" onclick="calculate()" </td>
                    <td class="totalCell" colspan="3"> Tổng: <input name="Total"
type="text" readonly="readonly"/> </td>
                    <td class="chk"> <input id="chkVAT" name="VAT" type="checkbox"/>
VAT </td>
            </tr>
        </table>
    </form>
    <p id="demo"></p>
</body>
</html>
```

A02.css

```css
@charset "utf-8";

table, tr, td {
    border: 1px solid #BFBFBF;
}

table {
    width: 100%;
    padding: 0;
    margin: 0;
}

.input {
    width: 30px;
}

.id, .chk {
    text-align: center;
}
```

```css
.totalCell {
    text-align: right;
}

.title > td {
    text-align: center;
}
```

A02.js

```javascript
function chk(row)
{
    var b = parseInt(document.getElementById("B" + row).value);
    var a = parseInt(document.getElementById("A" + row).value);
    if (b < 0 || b > a)
    {
        alert("Số lượng không đủ đáp ứng. Xin hãy nhập lại.");
        document.getElementById('B' + row).value = '';
    }
}

function check(row)
{
    var chkNode = document.getElementById("chk" + row);
    if (chkNode.checked == true) {
        var b = parseInt(document.getElementById('B' + row).value);
        var c = parseInt(document.getElementById('C' + row).value);
        var result = b * c;
        return result;
    }
    else
    {
        return 0;
    }
}

function calculate()
{
    var numRow = parseInt((document.getElementsByName("SoLuongCo")).length);
    var total = 0;
    for (i = 0; i < numRow; i++)
    {
        var i_total = check(i+1);
        total = total + i_total;
    }
    var chkVat = document.getElementById("chkVAT");
    if (chkVat.checked == true)
    {
        total = total + total * 0.1;
```

```
    }
    document.frmInvoice.Total.value = total;
}
```

Result

A03.html

```html
<!DOCTYPE html>
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
    <title>Calculator</title>
    <link href="A03.css" rel="stylesheet" type="text/css" />
</head>
<body>
    <div id="container">
        <div id="calculator">
            <div id="result">
                <div id="history">
                    <p id="history-value"></p>
                </div>
                <div id="output">
                    <p id="output-value"></p>
                </div>
            </div>
            <div id="keyboard">
                <button class="operator" id="backspace">CE</button>
                <button class="operator" id="clear">C</button>
                <button class="number" id="plusmn">&plusmn;</button>
                <button class="operator" id="%">%</button>
                <button class="number" id="7">7</button>
                <button class="number" id="8">8</button>
```

```html
                <button class="number" id="9">9</button>
                <button class="operator" id="/">&divide;</button>
                <button class="number" id="4">4</button>
                <button class="number" id="5">5</button>
                <button class="number" id="6">6</button>
                <button class="operator" id="*">&times;</button>
                <button class="number" id="1">1</button>
                <button class="number" id="2">2</button>
                <button class="number" id="3">3</button>
                <button class="operator" id="-">-</button>
                <button class="number" id="0">0</button>
                <button class="number" id=".">.</button>
                <button class="operator" id="equal">=</button>
                <button class="operator" id="+">+</button>
            </div>
        </div>
    </div>
    <script type="text/javascript" src="A03.js"></script>
</body>
</html>
```

A03.css

```css
* {
    margin: 0px;
    padding: 0px;
}

body {
    background: #2d354a;
    font-family: dosis, sans-serif;
}

#container {
    border: 1px solid #2d354a;
    width: 318px;
    height: 480px;
    position: fixed;
    left: 38%;
    top: 10%;
    box-shadow: 2px 4px 19px;
    background: #2d354a;
    border-radius: 20px;
}

#calculator {
    margin: 40px 7%;
}

#result {
```

```css
    background: white;
    width: 247px;
    height: 60px;
    padding: 10px;
    margin: 10px 0%;
    border-radius: 4px;
    border: none;
    font-family: comic Neue, cursive;
    font-weight: bolder;
    text-align: right;
}

#history {
    height: 20px;
    margin: 0 20px;
    font-size: 15px;
    color: #919191;
}

#output {
    margin: 0 20px;
    font-size: 30px;
}

.operator, .number {
    margin: 5px;
    width: 55px;
    height: 55px;
    border-radius: 60px;
    font-size: 20px;
    border: none;
    border-bottom: none;
    box-shadow: 5px 0px 8px 1px #191919;
    background: white;
    color: #2d354a;
    cursor: pointer;
    font-family: comic Neue, cursive;
    font-weight: bolder;
    outline: none;
}

.number:hover {
    background: #CACCCE;
}

.operator, #plusmn {
    background: #325683;
    color: white;
}
```

```css
.operator:hover, #plusmn:hover {
    background: #274869;
}

#backspace, #clear, #equal {
    color: #2d354a;
    background: #D97E5F;
}

#backspace:hover, #clear:hover, #equal:hover {
    background: #B5694F;
}
```

A03.js

```javascript
function getHistory() {
    return document.getElementById("history-value").innerText;
}

function printHistory(num) {
    document.getElementById("history-value").innerText = num;
}

function getOutput() {
    return document.getElementById("output-value").innerText;
}

function printOutput(num) {
    if (num=="") {
        document.getElementById("output-value").innerText = num;
    }
    else {
        document.getElementById("output-value").innerText =
getFormattedNumer(num);
    }
}

function getFormattedNumer(num) {
    if (num == "-") {
        return "";
    }
    var value = num.toLocaleString("en");
    return value;
}

function reverseNumberFormat(num) {
    return num.replace(/,/g, '');
}
```

```javascript
var operator = document.getElementsByClassName("operator");
for (var i = 0; i < operator.length; i++) {
    operator[i].addEventListener('click', function() {
        if (this.id == "clear") {
            printHistory("");
            printOutput("");
        }
        else if (this.id == "backspace") {
            var output = reverseNumberFormat(getOutput()).toString();
            if (output) {
                output = output.substring(0, output.length-1);
                printOutput(output);
            }
        }
        else {
            var output = getOutput();
            var history = getHistory();
            if (output == "" && history != "") {
                if (isNaN(history[history.length-1])) {
                    history = history.substring(0, history.length-1);
                }
            }
            if (output != "" || history != "") {
                output = output == "" ? output:reverseNumberFormat(output);
                history = history + output;
                if (this.id == "equal") {
                    var result = eval(history);
                    printOutput(result);
                    printHistory("");
                }
                else {
                    history = history + this.id;
                    printHistory(history);
                    printOutput("");
                }
            }
        }
    });
}

var number = document.getElementsByClassName("number");
for (var i = 0; i < number.length; i++) {
    number[i].addEventListener('click', function() {
        var output = reverseNumberFormat(getOutput());
        if (output != NaN) {
            if (this.id == "plusmn") {
                if (output[0] == "-") {
                    output = output.substring(1, output.length);
                }
            }
```
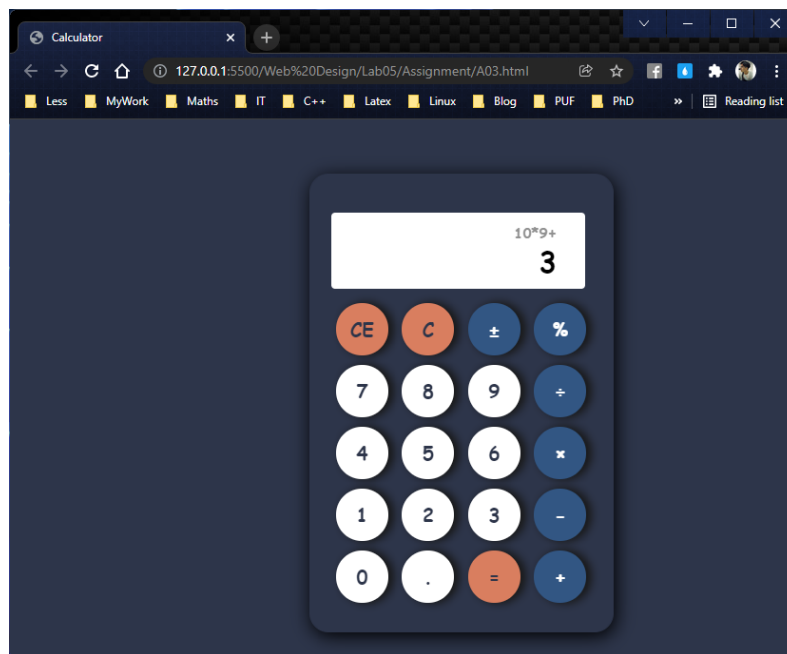
```
            else {
                output = "-" + output; }
        }
        else {
            output = output + this.id;}
        printOutput(output);
    }
  });
}
```

Result

A04.html

```html
<!DOCTYPE html>
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
    <title>Clock</title>
    <link href="A04.css" rel="stylesheet" type="text/css" />
</head>
<body>
    <div class="clock">
        <div class="hour">
            <div class="hr" id="hr"></div>
        </div>
        <div class="min">
            <div class="mn" id="mn"></div>
        </div>
        <div class="sec">
            <div class="sc" id="sc"></div>
```

```
        </div>
        <span class="digitalClock" id="digitalClock">10:12 AM</span>
    </div>
    <script type="text/javascript" src="A04.js"></script>
</body>
</html>
```

A04.css

```css
* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}

body {
    display: flex;
    justify-content: center;
    align-items: center;
    min-height: 100vh;
    background: #68a4ff;
}

.clock {
    position: fixed;
    width: 350px;
    height: 350px;
    display: flex;
    justify-content: center;
    align-items: center;
    background: #fff url(../images_Lab05/clock_new.png);
    background-size: cover;
    border-radius: 50%;
    border: 20px solid #fff;
    box-shadow: inset 0 0 30px rgba(0,0,0,.1),
                0 20px 20px rgba(0,0,0,.2),
                0 0 0 4px rgba(255,255,255,1);
}

.clock::before {
    content: ' ';
    position: absolute;
    width: 15px;
    height: 15px;
    background: #848484;
    border: 2px solid #fff;
    z-index: 4;
    border-radius: 50%;
}
```

```css
.hour, .min, .sec {
    position: absolute;
}

.hour, .hr {
    width: 160px;
    height: 160px;
    z-index: 1;
}

.min, .mn {
    width: 190px;
    height: 190px;
    z-index: 2;
}

.sec, .sc {
    width: 230px;
    height: 230px;
    z-index: 3;
}

.hr, .mn, .sc {
    display: flex;
    justify-content: center;
    position: absolute;
    border-radius: 50%;
}

.hr::before {
    content: ' ';
    position: absolute;
    width: 8px;
    height: 80px;
    background: #848484;
    border-radius: 6px 6px 0 0;
}

.mn::before {
    content: ' ';
    position: absolute;
    width: 4px;
    height: 90px;
    background: #d6d6d6;
    border-radius: 6px 6px 0 0;
}

.sc::before {
    content: ' ';
    position: absolute;
```

```css
    width: 2px;
    height: 150px;
    background: #ff6767;
    border-radius: 6px 6px 0 0;
}

.digitalClock {
    position: absolute;
    z-index: 0;
    font-family: sans-serif;
    background: #f3f2f2;
    padding: 6px 10px 6px 10px;
    font-size: 22px;
    font-weight: bold;
    top: 68%;
    left: 33%;
    transform: translateY(-50%);
    box-shadow: inset 0 0 2px 2px #0000001a;
    border-radius: 2px;
    text-align: center;
}
```

A04.js

```javascript
var hour = document.getElementById("hr");
var min = document.getElementById("mn");
var sec = document.getElementById("sc");
var digitalClock = document.getElementById("digitalClock");

function setClockTime() {
    const day = new Date();
    const hh = day.getHours();
    const mm = day.getMinutes();
    const ss = day.getSeconds();

    const hourDeg = (hh * 30) + (mm * 0.5);
    const minDeg = (mm * 6) + (ss * 0.1);
    const secDeg = (ss * 6);

    hour.style.transform = `rotateZ(${hourDeg}deg)`;
    min.style.transform = `rotateZ(${minDeg}deg)`;
    sec.style.transform = `rotateZ(${secDeg}deg)`;

    digitalClock.innerText = `${hh%12<10?'0':''}${hh % 12}:${mm<10?'0':''}${mm}
${hh>12?'PM':'AM'}`;
}

setClockTime();
setInterval(setClockTime, 1000);
```

Result