

Vũ Quang Minh
18110150

Bài 1

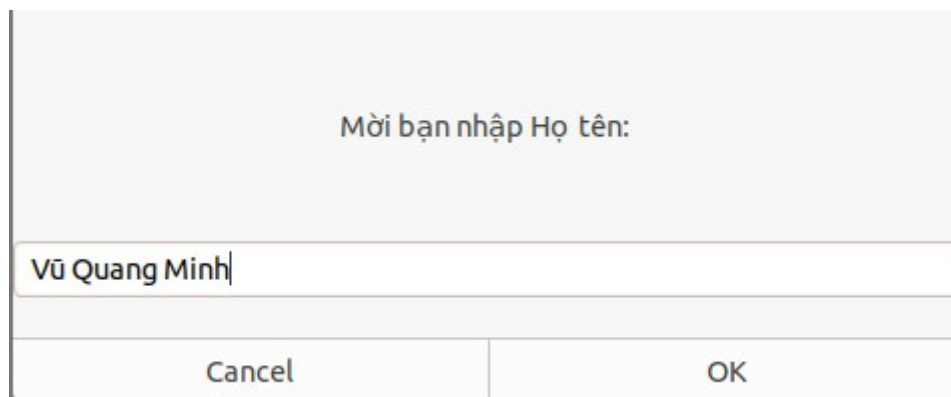
```
<script type="text/javascript" src="Bai1.js"></script>
```

Bai1.js

```
MSSV = prompt("Mời bạn nhập MSSV: ");  
Hoten = prompt("Mời bạn nhập Họ tên: ");  
Lop = prompt("Mời bạn nhập Lớp: ");  
  
document.write("<table width='100%' border = '1' cellspacing = '0' cellpadding =  
'0'>");  
document.write("<tr>");  
document.write("<td align= center colspan=3>" + "Danh sách sinh viên" + "</td>");  
document.write("</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>");  
document.write("<td align = center>" + MSSV + "</td>");  
document.write("<td align = center>" + Hoten + "</td>");  
document.write("<td align = center>" + Lop + "</td>");  
document.write("</tr>");  
document.write("</table>");
```



A screenshot of a JavaScript prompt dialog box. The title bar is light gray. The main area is white with the text "Mời bạn nhập MSSV:" in a dark gray font. Below the text is a text input field containing the value "18110150". At the bottom, there are two buttons: "Cancel" on the left and "OK" on the right, both in a light gray box.



A screenshot of a JavaScript prompt dialog box. The title bar is light gray. The main area is white with the text "Mời bạn nhập Họ tên:" in a dark gray font. Below the text is a text input field containing the value "Vũ Quang Minh". At the bottom, there are two buttons: "Cancel" on the left and "OK" on the right, both in a light gray box.

Mời bạn nhập Lớp:

18TTH|

Cancel OK

Danh sách sinh viên		
MSSV	Họ Tên	Lớp
18110150	Vũ Quang Minh	18TTH

Bài 2

```
<html>
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>

<style>
table {
border-collapse: collapse;
border-spacing: 0;
}

th, td {
padding: 10px 20px;
border: 1px solid #000;
}

</style>
<script src="Bai2.js"></script>
</head>
<body id = "body">

    <table width='100%' border = '1' cellspacing = '0' cellpadding = '0'>
        <tr>
            <th>STT</th>
            <th>Tên hàng</th>
            <th>Sản phẩm có</th>
            <th>Sản phẩm mua</th>
            <th>Đơn giá</th>
            <th>Chọn mua</th>
        </tr>
        <tr>
            <td>1</td>
            <td>CPU</td>
            <td>10</td>
            <td><input type = "number" id = "SLCPU" ></td>
            <td>100</td>
            <td><input type = "radio" id = "CPU" ></td>
        </tr>
        <tr>
            <td>2</td>
            <td>RAM</td>
```

```

        <td>10</td>
        <td><input type = "number" id = "SLRAM" ></td>
        <td>50</td>
        <td><input type = "radio" id = "RAM" value = "RAM"></td>
    </tr>
    <tr>
        <td>3</td>
        <td>HDD</td>
        <td>10</td>
        <td><input type = "number" id = "SLHDD" ></td>
        <td>80</td>
        <td><input type = "radio" id = "HDD" value = "HDD"></td>
    </tr>
    <tr>
        <td></td>
        <td><button type="button" onclick="Tong()">OK</button></td>
        <td align = "center" colspan = 3 value = "Tong">Tổng: <span id =
"Tong" ></span></td>
        <td><input type = "radio" id = "VAT" value = "VAT">VAT</td>
    </tr>
</table>
</body>
</html>

```

Bai2.js

```

function Tong(){
    var SLCPU = document.getElementById("SLCPU").value;
    var SLRAM = document.getElementById("SLRAM").value;
    var SLHDD = document.getElementById("SLHDD").value;
    document.getElementById("Tong").innerHTML = (+SLCPU*100 + +SLRAM*50+ +SLHDD
* 80) * 1.1;
}

```

STT	Tên hàng	Sản phẩm có	Sản phẩm mua	Đơn giá	Chọn mua
1	CPU	10	5	100	<input type="radio"/>
2	RAM	10	1	50	<input type="radio"/>
3	HDD	10	1	80	<input type="radio"/>
	OK	Tổng: 693			<input type="radio"/> VAT

Bài 4

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional"
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>My Beautiful Clock</title>
<link href="Clock.css" rel="stylesheet" type="text/css" />
</head>
<body>
    <div class="clock">
        <div id="hour"></div>
        <div id="minute"></div>
        <div id="second"></div>
        <span id="dclock">
            <form name="ClockDiv">
                <input type="text" name="ClockText" size="7" />
            </form>
        </span>
    </div>
</body>
<script src="Clock.js"></script>
</html>

```

```

@charset "utf-8";
/* CSS Document */

body,html{
    padding:0;
    margin:0;
    background-color:#39C;
}
.clock{
    width:300px;
    height:300px;
    background-color:#000;
    margin: 0 auto;
    margin-top:40px;
    border-radius:50%;
    border: 20px solid #003;
    box-shadow: inset 0px 0px 2px 1px #06F,0px 0px 2px 1px #003;
    background-image:url(../Desktop/clock.jpg);
    background-repeat:no-repeat;
    background-size:contain;
    position:relative;
}
.clock::after{
    content:"";
    display:block;
    width:8px;
    height:8px;
    background:#000;
    border-radius:50%;
    left:50%;

```

```

    top:50%;
    position:absolute;
    transform: translate(-50%,-50%);
    border: 2px solid #FFF;
}

#second,#minute,#hour{
    position:absolute;
    width:100%;
    height:100%;
}

#second{
    z-index:3;
}
#minute{
    z-index:2;
}
#hour{
    z-index:1;
}

```

```

#second::before,#minute::before,#hour::before,#second::after,#minute::after{
    content:"";
    display:block;
    left:50%;
    top:50%;
    position:absolute;
    width: 1px;
    height:120px;
    background:#900;
    transform:translate(-50%,-100%);
    border-radius:10px;
}

#second::before{
    width: 1px;
    height:120px;
    background:#red;
}
#second::after{
    width: 1px;
    height:20px;
    background:#red;
    transform: translate(-50%,0);
}
#minute::before{
    width: 3px;
    height:100px;
    background:#red;
}

```

```

#minute::after{
  width: 3px;
  height:10px;
  background:#red;
  transform: translate(-50%,0);
}

#hour::before{
  width: 5px;
  height:70px;
  background:#gray;
}

#dclock{
  position:absolute;
  z-index:1;
  font-family:cursive;
  background:#39C;
  padding: 0 6px 0 6px;
  font-size:12px;
  top:70%;
  left:33%;
  transform: translateY(-50%);
  box-shadow:inset 0px 0px 2px 2px #000066;
  border-radius:2px;
  text-align: center;
}
#

```

```

var hour= document.getElementById("hour");
var minute = document.getElementById("minute");
var second = document.getElementById("second");
var dclock = document.getElementById("dclock");

function DisplayTime()
{
  const time = new Date();
  const hours = time.getHours();
  const minutes = time.getMinutes();
  const seconds = time.getSeconds();

  var hour = (hours > 12) ? hours - 12 : hours;
  var minute = ((minutes < 10) ? ":0" : ":") + minutes;
  var second = ((seconds < 10) ? ":0" : ":") + seconds;

  var display = " " + hour + minute + second + ((hour > 12) ? " PM" : " AM");

  document.ClockDiv.ClockText.value = display;
  id = setTimeout("DisplayTime()",1000);
}

function setRclock(){
  const date = new Date();
  var time = [date.getHours(), date.getMinutes(), date.getSeconds()];
  var Divs =[document.getElementById("hour"), document.getElementById("minute"), document.getElementById("second")];

  var h = time[1]/2+time[0]*30;

```

```

        document.ClockDiv.ClockText.value = display;
        id = setTimeout("DisplayTime()",1000);
    }

function setRclock(){
    const date = new Date();
    var time = [date.getHours(), date.getMinutes(), date.getSeconds()];
    var Divs =[document.getElementById("hour"), document.getElementById("minute"), document.getElementById("second")]

    var h = time[1]/2+time[0]*30;

    Divs[0].style.transform = " rotate("+h+"deg)";
    Divs[1].style.transform = " rotate("+time[1]*6+"deg)";
    Divs[2].style.transform = " rotate("+time[2]*6+"deg)";
}

setRclock();
setInterval(setRclock,1000);
DisplayTime();

```



Bài 3

Bai3.html

```

<html lang="en" data-theme="light">
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Calculator with JS</title>
<link rel="stylesheet" href="style.css" />
</head>
<body>
    <div class="container-grid">
        <div class="heading">
            <span> <i class="fas fa-history">
                <div id="history"></div>

```

```

        </i>
      </span> <span> <i class="fas fa-calculator"></i> <i
        class="fas fa-calculator"></i> <i class="fas fa-
calculator"></i>
      </span> <span> <label> <input type="checkbox" name="theme">
        <span class="btn"></span> <i class="fas fa-
moon"></i>
      </label>
    </span>
  </div>
  <div id="result"></div>
  <div class="calculate">
    <div class="number">
      <button class="btn" value="7">7</button>
      <button class="btn" value="8">8</button>
      <button class="btn" value="9">9</button>
      <button class="btn" value="4">4</button>
      <button class="btn" value="5">5</button>
      <button class="btn" value="6">6</button>
      <button class="btn" value="1">1</button>
      <button class="btn" value="2">2</button>
      <button class="btn" value="3">3</button>
      <button class="btn" value="0">0</button>
      <button class="btn" value=".">.</button>
    </div>

    <div class="operation">
      <button class="btn" onclick="undo()">DEL</button>
      <button class="btn" onclick="clean()">AC</button>
      <button class="btn" value="*">x</button>
      <button class="btn" value="/">/</button>
      <button class="btn" value="+">+</button>
      <button class="btn" value="-">-</button>
      <button class="btn" value="/100">%</button>
      <button class="btn" onclick="equal()">=</button>
    </div>
    <script src="https://kit.fontawesome.com/1c2c2462bf.js"
      crossorigin="anonymous"></script>
    <script src="Bai3.js"></script>
  </div>

```

```

    </div>
  </body>
</html>

```

Style.css

```

* {
  padding: 0;
  margin: 0;
  box-sizing: border-box;
  font-family: roboto;
  background-image: linear-gradient(to bottom right, #5cc8ff 0%, #d63c6b
100%);
  background-repeat: no-repeat;
  background-attachment: fixed;
}

html {
  --bg: #e9eef4;
  --color-text: #0e0e0e;
  --color-border: #bcbfc2;

```

```

    --btn-active: #bcbfc2;
}

html[data-theme='dark'] {
    --bg: #2d2e2f;
    --color-text: #fff;
    --color-border: #6c7073;
    --btn-active: #424548;
}

/* Heading */
.heading {
    display: flex;
    justify-content: space-between;
    align-items: center;
    padding: 0 .8rem .4rem;
}

.heading span {
    color: var(--color-text);
    font-size: 1.3rem;
}

.fas {
    cursor: pointer;
}

label input[type="checkbox"] {
    -webkit-appearance: none;
}

#history {
    display: none;
    position: absolute;
    z-index: 9999;
    background: #5d4196;
    color: #fff;
    font-size: 1rem;
    font-weight: 400;
    padding: .5rem;
    margin-top: .5rem;
}

.indexHistory {
    display: block !important;
}

/* Main */
#result {
    padding: .5rem 1rem 0rem;
    text-align: right;
    height: 50px;
    font-size: 1.8rem;
    color: var(--color-text);
    background: var(--bg);
    white-space: nowrap;
    overflow-y: hidden;
    overflow-x: auto;
}

.container-grid {

```



```

padding: 5rem 0;
max-width: 300px;
width: 100%;
margin: 0 auto;
display: grid;
grid-template-rows: .5fr 1fr 5fr;
}

.calculate {
border-top: 1px solid var(--color-border);
display: grid;
grid-template-columns: 2fr 1.5fr;
}

.number {
background: var(--bg);
border-right: 1px solid var(--color-border);
display: grid;
grid-template-columns: repeat(3, 1fr);
grid-template-rows: repeat(4, 1fr);
}

.operation {
background: var(--bg);
display: grid;
grid-template-columns: repeat(2, 1fr);
grid-template-rows: repeat(4, 1fr);
}

.btn {
border: none;
width: 100%;
font-size: 1.5rem;
color: var(--color-text);
background: var(--bg);
outline: none;
cursor: pointer;
}

.operation .btn {
color: #1a73e0;
}

.btn:active {
border-radius: 50%;
background: var(--btn-active);
cursor: pointer;
}

/* Customer scrollbar */
#result::-webkit-scrollbar {
height: 3px;
width: 3px;
background: #fff;
}

#result::-webkit-scrollbar-thumb:horizontal {
background: #0e0e0e;
border-radius: 10px;
}

#result::-webkit-scrollbar-track {

```

```

border-radius: 0;
background: #fff;
}

```

Bai3.js

```

const numbers = document.getElementsByClassName('btn');
const result = document.getElementById("result");
const logHistory = document.getElementById("history");
let history = [];
let expressionData = "";
let resultData = "";

for (let number of numbers) {
    number.addEventListener('click', function () {
        result.innerHTML += this.value
    });
}

function equal() {
    let res = result.innerHTML
    let output = eval(res)
    expressionData = res
    resultData = output
    history.push({ expression: expressionData, result: resultData });
    showHistory()
    result.innerHTML = output
}

function clean() {
    result.innerHTML = " "
}

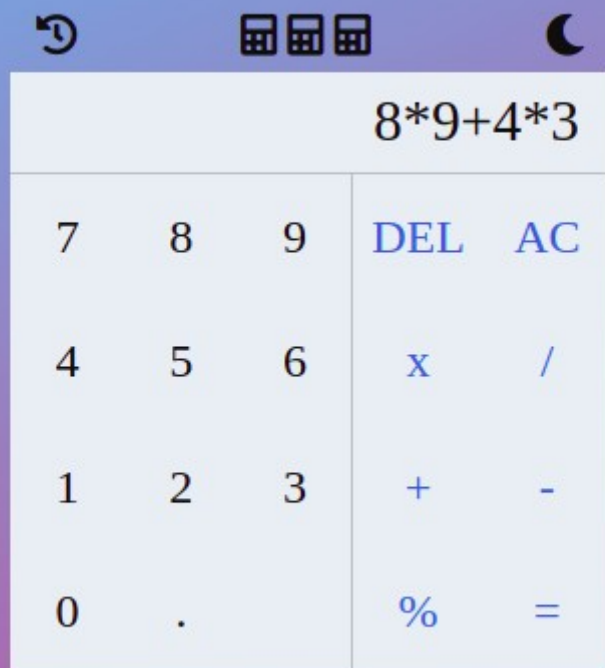
function undo() {
    let res = result.innerHTML
    result.innerHTML = res.substring(0, res.length - 1);
}

function showHistory() {
    let log = ""
    for (let key in history) {
        log += history[key].expression + " = " + history[key].result + "<br> " +
    "<br>"
    }
    logHistory.innerHTML = log
}

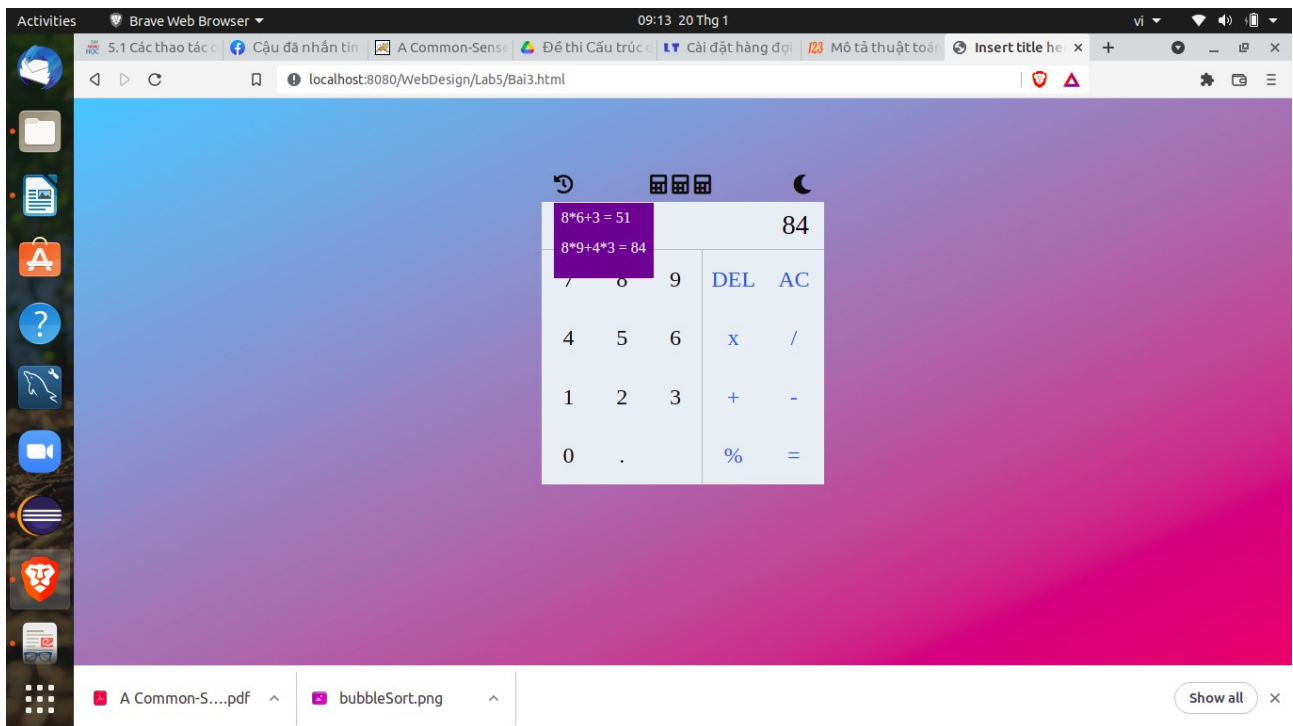
// Dark & Light Mode
let checkbox = document.querySelector('input[name=theme]');
checkbox.addEventListener('change', function () {
    if (this.checked) {
        document.documentElement.setAttribute('data-theme', 'dark');
    } else {
        document.documentElement.setAttribute('data-theme', 'light');
    }
})

// Index History
let indexHistory = document.getElementsByClassName("fa-history")
indexHistory[0].addEventListener("click", function () {
    logHistory.classList.toggle("indexHistory")
})

```



Ngoài ra còn thêm 2 chức năng là lưu lại phép tính vừa thực hiện



và thời sang chế độ light/dark

