

# CSE3002 – Internet and Web Programming

## Digital Assignment – 1 [Fall Semester 20-21]

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Question: Designing a fully functional calculator in HTML & JavaScript which uses 2 operands and 1 operator

```
<!DOCTYPE HTML>
<html>
<head>
<title> Calculator </title>
<script>
    var flag=0;
    function getValue(n)
    {
        document.getElementById("result").value+=n;

        if((n=='+' || n=='-' || n=='*' || n=='/'))
        {
            flag=1;
            document.getElementById("opr").value=n;
            exit;
        }
        if(flag==0)
        {
            document.getElementById("op1").value+=n;
        }
        if(flag==1)
        {
            document.getElementById("op2").value+=n;
        }
    }
    function calculateAnswer()
    {
        var b1 = document.getElementById("op1").value;
        var b2 = document.getElementById("op2").value;
        var op = document.getElementById("opr").value;
        var nb1 = Number(b1);
        var nb2 = Number(b2);
        var res;
```

```

        switch(op)
        {
            case '+':
                res=nb1+nb2;
                break;
            case '-':
                res=nb1-nb2;
                break;
            case '*':
                res=nb1*nb2;
                break;
            case '/':
                res=nb1/nb2;
                break;
        }
        alert(res);
    }

    function clearText()
    {
        flag=0;
        document.getElementById("op1").value = "";
        document.getElementById("op2").value = "";
        document.getElementById("opr").value = "";
        document.getElementById("result").value = "";
    }
</script>
<style>
.my-btn {
    width:110px;
    padding:5px;
}
</style>
</head>
<body bgcolor="#9515E7">
    <h1 align="center">Hello Lets calculate </h1>
    <input type="text" name="op1" id="op1" />
    <input type="text" name="opr" id="opr" />
    <input type="text" name="op2" id="op2" />
    <table border=4 align="center" style="text-align: center; border: 1px solid
black;">
        <tr colspan=3>

```

```

        <td colspan=3> <input type="text" name="result" id="result"
style="text-align:right" /> </td>
    </tr>
    <tr>
        <td> <button value="7" name="7"
onclick="javascript:getValue('7')">7 </button> </td>
        <td> <button value="8" name="8"
onclick="javascript:getValue('8')">8 </button> </td>
        <td> <button value="9" name="9"
onclick="javascript:getValue('9')">9 </button> </td>
    </tr>
    <tr>
        <td> <button value="4" name="4"
onclick="javascript:getValue('4')">4 </button> </td>
        <td> <button value="5" name="5"
onclick="javascript:getValue('5')">5 </button> </td>
        <td> <button value="6" name="6"
onclick="javascript:getValue('6')">6 </button> </td>
    </tr>
    <tr>
        <td> <button value="1" name="1"
onclick="javascript:getValue('1')">1 </button> </td>
        <td> <button value="2" name="2"
onclick="javascript:getValue('2')">2 </button> </td>
        <td> <button value="3" name="3"
onclick="javascript:getValue('3')">3 </button> </td>
    </tr>
    <tr>
        <td colspan=2> <button value="0" name="0"
onclick="javascript:getValue('0')">0 </button> </td>
        <td> <button value="/" name="/"
onclick="javascript:getValue('/')">/ </button> </td>
    </tr>
    <tr>
        <td> <button value="+" name="+"
onclick="javascript:getValue('+')">+ </button> </td>
        <td> <button value="%" name="%"
onclick="javascript:getValue('%')">% </button> </td>
        <td> <button value="-" name="-" onclick="javascript:getValue('-')">-
</button> </td>
    </tr>
    <tr>

```

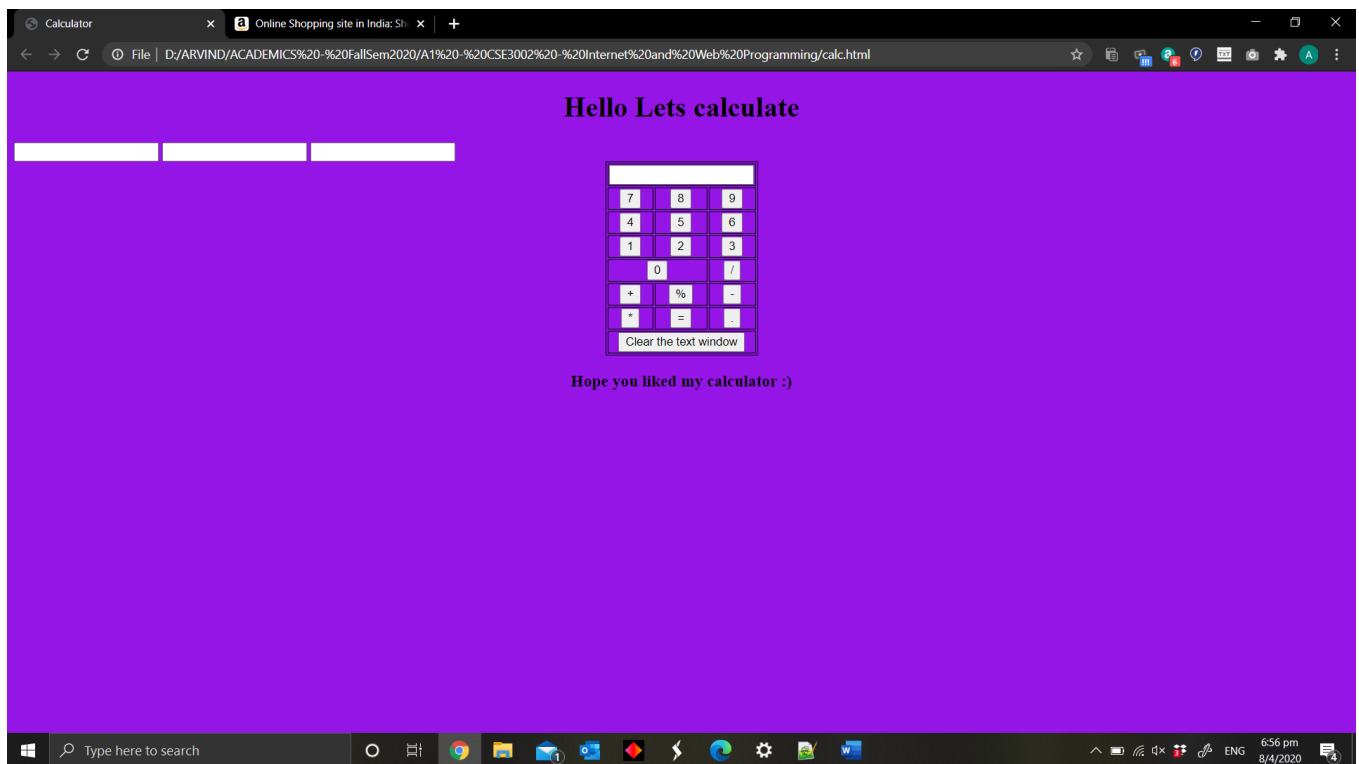
```

        <td><button value="*" name="*"
onclick="javascript:getValue('*")">*</button></td>
        <td><button value="=" name="="
onclick="javascript:calculateAnswer()">=</button></td>
        <td><button value="." name="."
onclick="javascript:getValue('.')">.</button></td>
    </tr>
</tr>

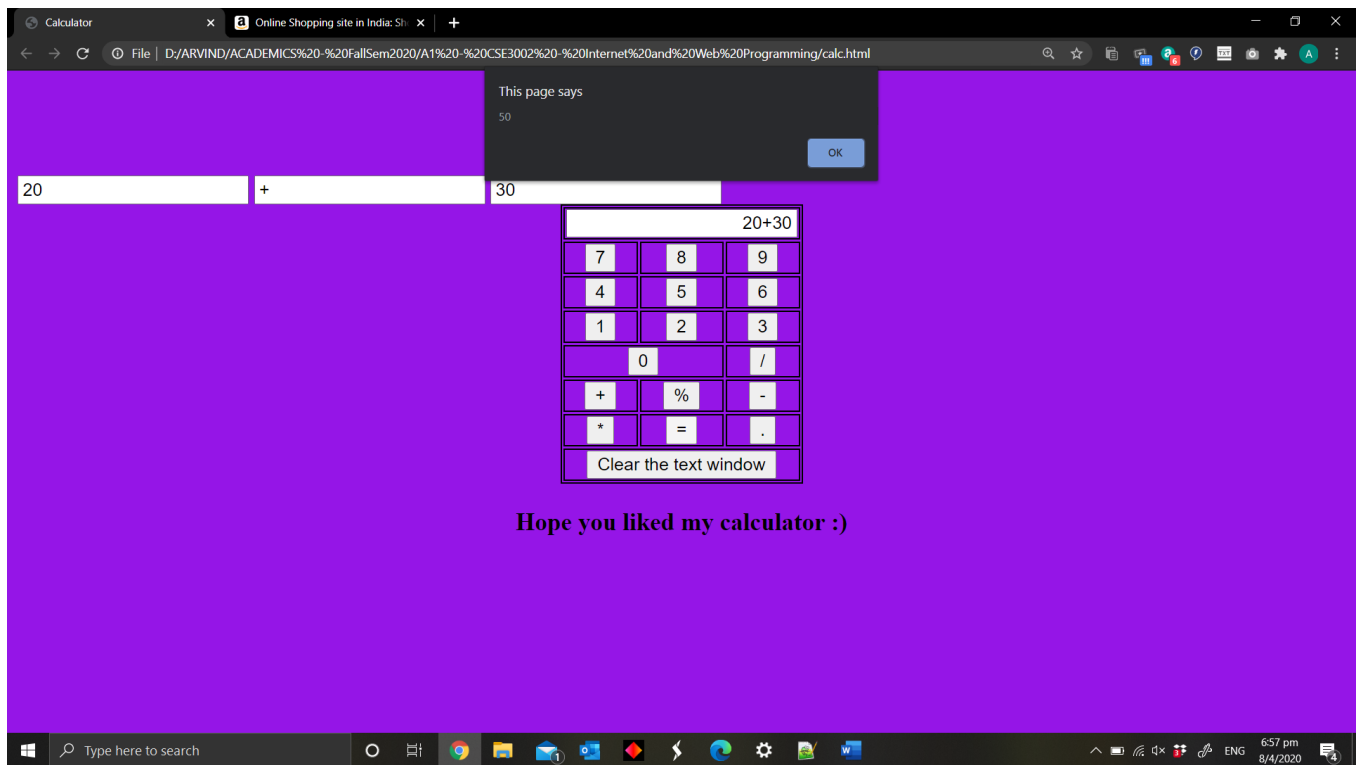
    <td colspan=3><button name="clear" id="clear"
onclick="javascript:clearText()">Clear the text window</button></td>
</tr>
</table>
<h3 align="center">Hope you liked my calculator :)</h3>
</body>
</html>

```

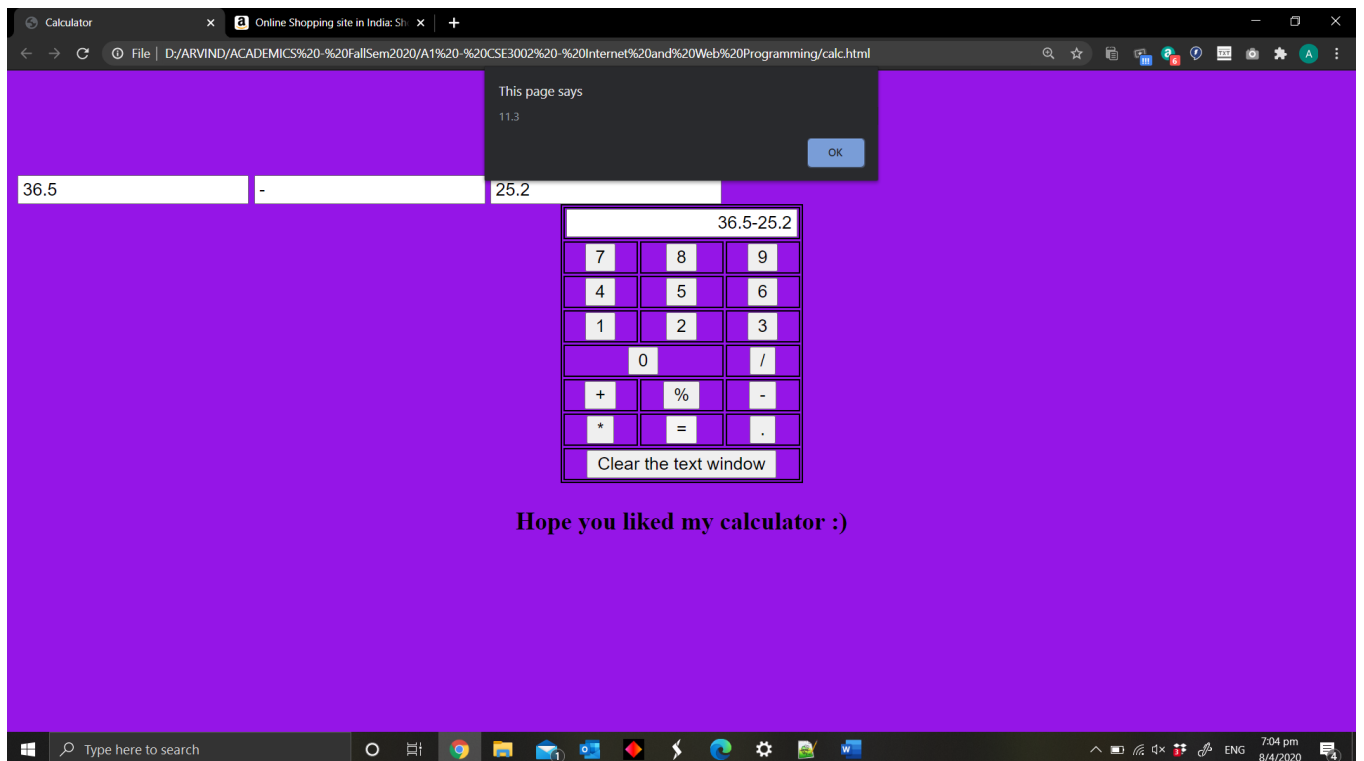
## Output Screenshots:



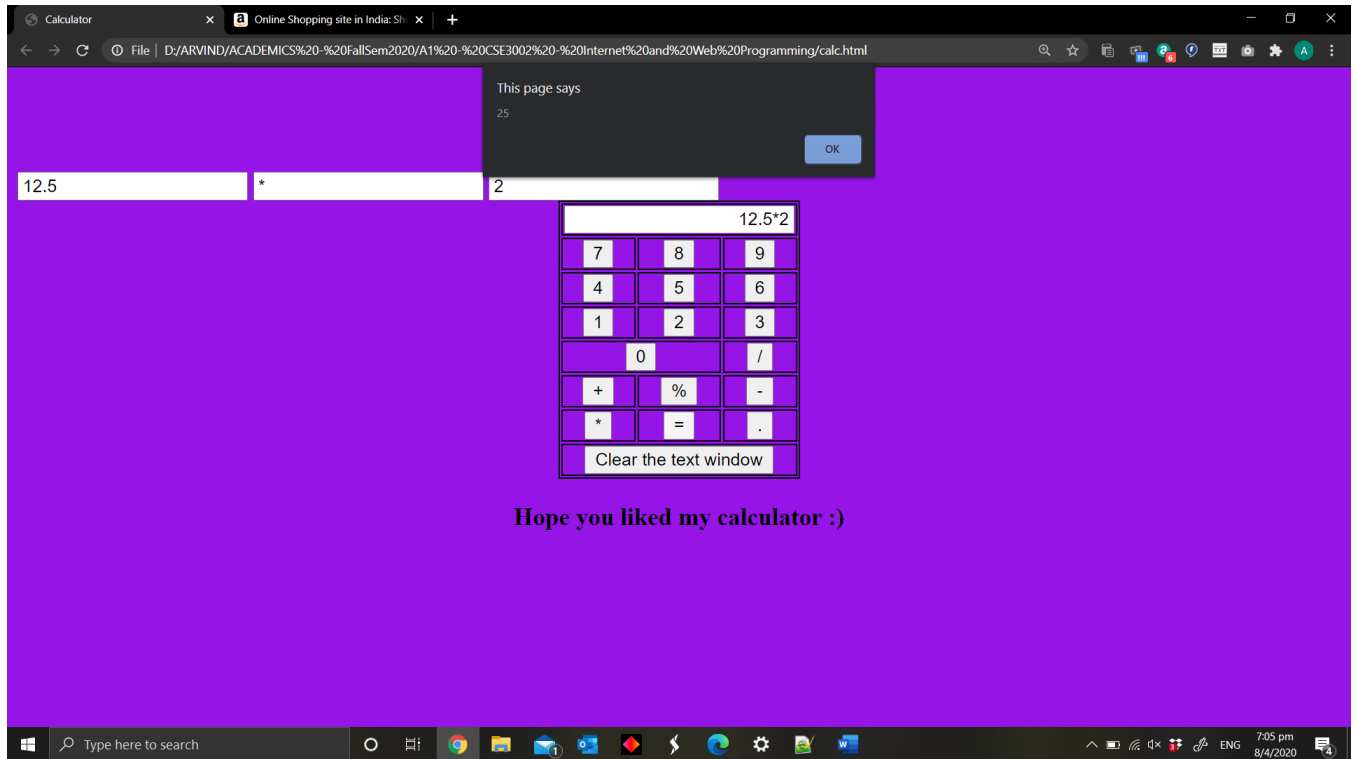
**Fig 1.** The main page of the calculator



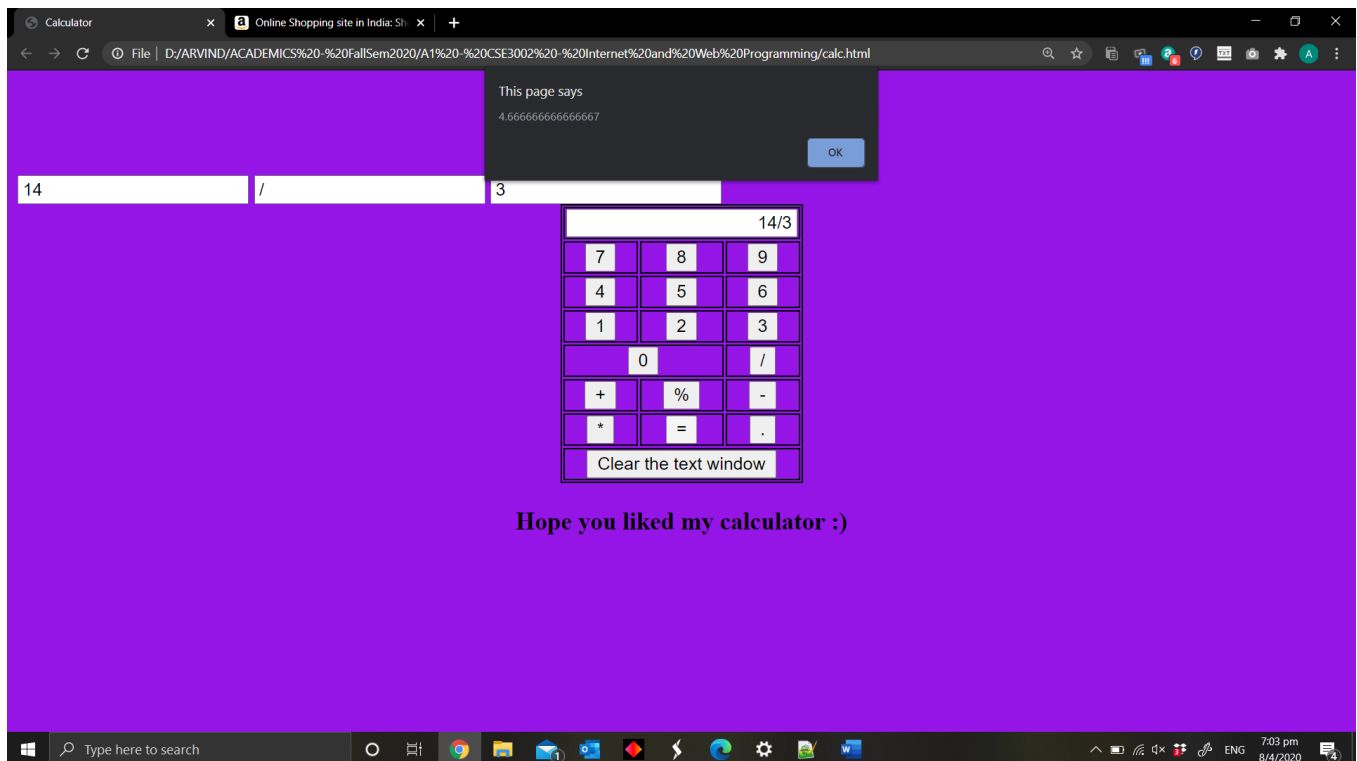
**Fig 2. Addition Operation**



**Fig 3. Subtraction Operation**



**Fig 4. Multiplication Operation**



**Fig 5. Division Operation**