Faculty of Information and Communication Technology

ITCS212 Web Programming

JavaScript2: Lab-L05-2

Create a simple calculator using HTML and JavaScript, which can evaluate simple arithmetic operators on integer and floating numbers. The calculator must be able to

1. Calculate numbers by using basic operations (plus, minus, multiply, divide).
2. Show result after inserting new operation.
3. Have Clear button to clear all entry.

We have provided the interface and code structure for you. Your responsibility is to create functions that perform calculation, displaying number, displaying decimal point and clear all entry. The example of interface and code structure have shown below.

Example of interface

Example of code structure

```
<script>
    var Calculator = document.FormCalculator;
    var Accumulate = 0; // to store the result of accumulation
    var FlagNewNum = false; // To check whether the number is new number
    var PendingOp = ""; // to store the pending operation


    function NumPressed(Num)
    {
        // If number button is pressed, show number on the screen
        // if it is still the same number, then add new digit to the number
        // else, show the new number on the screen
    }

    function Operation(Op)
    {
        // If operation button is pressed for first time, then set the pending operation
        // else, do the arithmetic of the pending opearion
        // and set the lastest operation as the new pending operation
    }
    function Decimal()
    {
        // If it is the first time of inserting number,
        // then start with 0 and follow by point (0.)
        // else, if it has no decimal point before, then add decimal point to the number
        // show number on the screen
    }

    function Clear()
    {
        //Clear Entry
    }
</script>
```

Extra Tasks

1. The calculator can support continuous inputting number and operators. This is the same as scientific calculator but you do not need to worry about additional operators.

Submission
Please zip all of your works into one zip file namely "**Lab-L05-2-[Section]-[StudentID].zip**" and submit to the activity submission on Mycourses.