

## DIT 0407 WEB DEVELOPMENT II

### INSTRUCTIONS

**PLEASE DO NOT USE THE JAVASCRIPT FUNCTION EVAL() TO DO THE FUNCTIONALITY.**

When one is learning programming it's a good thing to learn systematically as you get acquainted with the language. Today we will be building a calculator using basic JavaScript functions and operators.

The various topics you will be required to cover as you are building the calculator are as follows:

- Requirements for building the JavaScript Calculator
- JavaScript Functions to build Calculator
- HTML5 and CSS3 in creating the visible parts of the calculator
- Running the program in your browser using a web server like XAMPP or WAMP or MAMP

A calculator, as we know, will perform our basic operations:

- Addition
- Subtraction
- Multiplication
- Division.

For starting out, you should be familiar with HTML5 and CSS3. I believe you are familiar with this as covered in Web Development I.

The section with JavaScript code is what we are interested in.

Using the notes on our notes page I would love you to do the calculator as you test your knowledge so far (<https://github.com/njoguchris/JS-Notes>).

When building the calculator, you will be required to have the following:

- Integrated Development Environment
- Local Server/online compiler

If you're new to website development, you should know that one needs a local server to test out codes before deployment. You can go for wamp, xampp or any other server. For writing your codes, there are so many options: Sublime Text 3, VS Code, PHPStorm etc. Once you're through with setting up platforms, rest of the work is a easy.

To link various files, you can use the following:

Embedding CSS you can use: **Inline CSS, Internal CSS or External CSS**

So, the list of elements of the calculator are mentioned below:

1. **Display Screen:** This will be used for user inputs as well as output results.
2. **Buttons:** We are going to need buttons for a basic calculator:
  - a) **Numbers:** Buttons that will input values 0-9.
  - b) **Operations:** Buttons for basic operations that is addition, multiplication, division, subtraction
  - c) **Others:** Buttons for decimal, clear and Result