Web Development 2.1 – Project

(Weighting: 10%)

(Due Date: Sunday, 27th November)

**‘Design a Calculator’**

You should design a calculator with at least the functions: plus, minus, multiply, divide, cancel and equals.

Notes:

* ~~Each ‘button’ must be clickable i.e. you shouldn’t have to type any numbers into a text box.~~
* Marks will be awarded for styling e.g. maybe change the shade of a ‘key’ when it’s being pressed to give feedback to the user etc.
* ~~Buttons do not need to be used for keys.. any block element (e.g. <div>) can be made clickable.~~
* One possible strategy for the calculation would be to write the digits to the calculator ‘screen’ (e.g. “2+3”), and then use the JavaScript eval() function to compute the answer.

e.g. eval(“2+3”) returns 5.

* Consider using CSS Grid Layout for laying out the keys.

Submission

Submit a zip file with the following contents:

* a detailed report including
  + Introduction
  + Explanation of the HTML content of the project
  + Detail of the various CSS parts: layout, styling etc.
  + Detailed explanation of how the JavaScript operates for the project
  + Conclusion

In all sections give examples of code and screenshots to support your explanations.

* A zip file containing all code written (include any images/icons etc. used in the project)
* Signed plagiarism form

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| Mark | HTML/CSS | JavaScript | Report |
| 40-50 | Basic layout ok but with little styling. | Strong attempt made but calculator not operating. | Lack of structure with poor explanations. |
| 50-80 | Proficient use of HTML/CSS to achieve more polished design.  Code neat, commented and validated. | Most functions working but with bugs in places.  Code neat and commented. | Well-structured document with adequate explanations and screenshots  Code samples of various features adequately explained |
| 80+ | Advanced use of CSS resulting in a unique design with excellent user interaction. | All functions working perfectly.  Excellent neat and logical layout of code with appropriate variable names, comments etc. | Exceptional presentation of project demonstrating thorough understanding of content. |

Scoring Rubric: