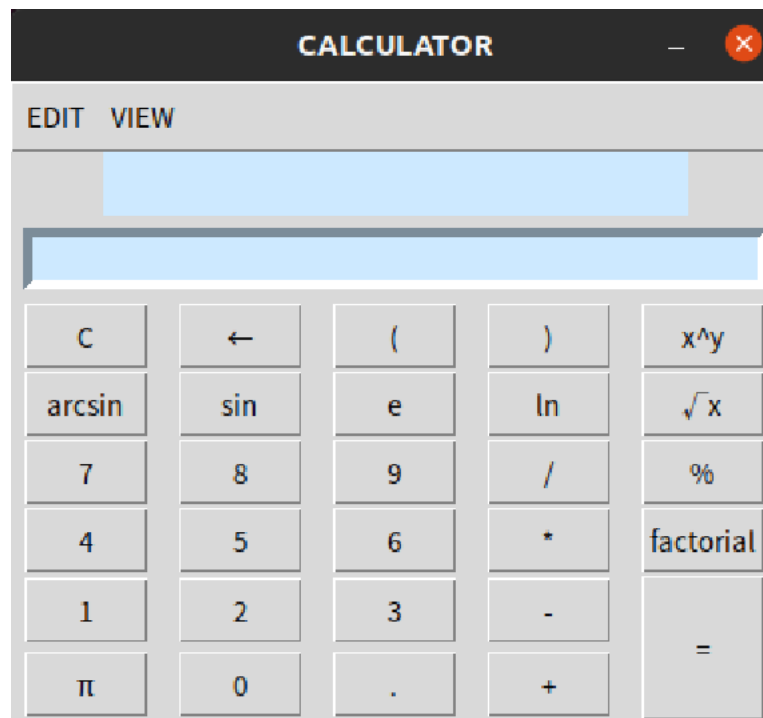


Software title:

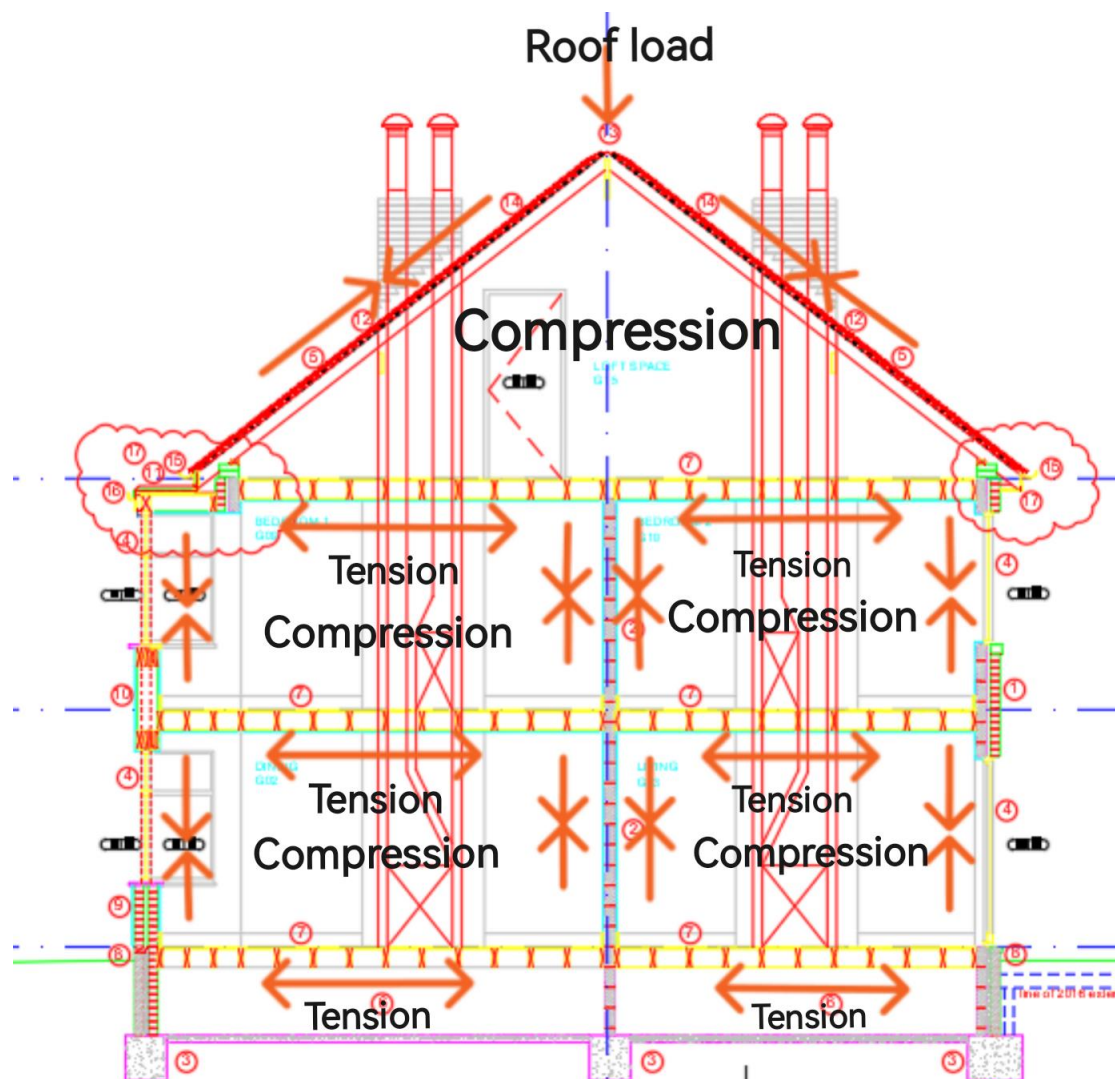
Simple Calculator

Software diagram:**Background and motivation:**

Engineers are required to solve many practical problems in accuracy. In that case, the convenient and fast calculation could be rather important for engineers in real situations. Meanwhile, the reliability of data is fundamental for engineers attributed to most projects conducted by engineers could not be implemented again. Hence, before engineers put projects into practice, multiple repetitive and accurate calculations are the cornerstone of a project. In conclusion, engineers should demand for a tool that could calculate results quickly and accurately. So we plan to write a calculator software could be easily used by engineers in Python with GUI (Graphical User Interface). And the name of the software is 'Simple calculator'.

Key functions:

The 'Simple Calculator' include the basic addition, subtraction, multiplication and division of integers, decimals and fractions. Moreover, the 'simple calculator' support trigonometric operation. It also has factorial conversion function. This is particularly useful for Architecture Environmental Engineers.



Graph 1.

For example, as the graph 1 shows, when Architecture Environmental Engineers calculate the compression of roofs. The trigonometric operation could hard for the human brain but could be easy for the 'Simple Calculator'. Furthermore, it also supports the root and power operation for few complex calculations.

Conclusion:

Though there are kinds of calculators in the market. But most of them are real and need to be carried. The 'Simple Calculator' is a virtual software in the computer, which means that the software could be saved in cloud storage. When it is needed, the 'Simple Calculator' could be downloaded and used by engineers. Provided that engineers forget to carry the real calculator sometimes, 'Simple Calculator' could be alternative as well. Primarily, 'Simple Calculator' could help engineers to solve some basic calculation and assistant them to conduct projects. It is also suggested for engineers to use 'Simple Calculator' when calculating some large numbers.