

In this assignment, you should employ the example project of RLF implementation in python in order to conduct a parametric study. You can create your own version of the implementation by applying modifications or commenting on it in order to demonstrate that you have understood it well. In this parametric study, the effect of changing the characteristics of the walls, and the type of windows on the sensible and latent load of the building is investigated. Accordingly, the heating and cooling sensible load and the latent load of the building should be first calculated for a base case. Next, the calculation is carried out for three different walls (with notably different overall R-values) and three different window types (with different glass and frame types). You should then use

matplotlib's 2D plots, bar and pie charts in order to demonstrate the share of each component in the overall heating and cooling load, and the effect of changing the wall and window properties on the mentioned load values.

Pay attention that the required inputs for the sensitivity analysis should be provided in CSV files and should be imported as Pandas data frames.