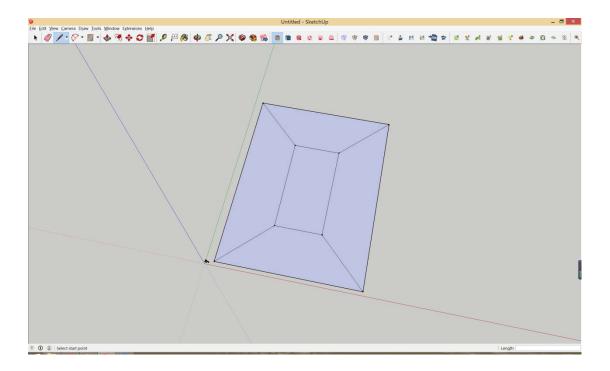
WEEK 6_ POJER Task 1 Considering the same example you alread in the previous assignment (readinative heart teansfex Lettreen two parallet plates), how many shields with epsilon = 0,1 should add in order to have the new heart transfer rate to be 1% of the case Without Shields? E1=0,2 E2=0,7 T1=800K \$12 T2=200K $\frac{\dot{Q}_{net}}{\dot{Q}_{net}} = \frac{\dot{Q}_{net}}{A} = \frac{2A(T_1^4 - T_2^4)}{A} = \frac{4}{1 + 1 - 1} = \frac{4}{1 + 1 - 1}$ $\frac{1}{1 + 1 - 1} = \frac{4}{1 + 1 - 1} = \frac{4}{1 + 1 - 1}$ $\frac{1}{1 + 1 - 1} = \frac{4}{1 + 1 - 1}$ $= (5,67.10^{-8}) \cdot (800^4 - 500^4) = 3625,4 \frac{W}{m^2}$ The new heat transfer heart should be 1% of the pret1-2 Prot 1-2 · 10% = Prot 1-2, n shields = 3625, 4 · 1% = 36,254 m2 Phet 1-2, n shields $A = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 \end{pmatrix}$ $C = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 \end{pmatrix}$ $C = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 \end{pmatrix}$ $C = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 \end{pmatrix}$ $C = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 \end{pmatrix}$ $C = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 \end{pmatrix}$ $C = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 \end{pmatrix}$ $C = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 \end{pmatrix}$ $C = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 \end{pmatrix}$ $C = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 \end{pmatrix}$ $C = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 \end{pmatrix}$ $C = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 \end{pmatrix}$ $C = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 \end{pmatrix}$ $C = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 \end{pmatrix}$ $C = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 \end{pmatrix}$ $C = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 2 & 1 \end{pmatrix}$ (21 + 1 - 1) + (21 + 2 - 1) - (21 + 2 - 1) (21 + 2 - 1) + (23,1 + 23,2) - (25,1 + 25,2)E, = 0,2 £ 7 82 = 0,7 £ 7 83 = 84 + 85 = 8n = 0,1 $36,254 = 5,67 \cdot 10^{-8} (800^4 - 500^4)$ $\left(\frac{1}{0,2} + \frac{1}{0,7} - 1\right) + n\left(\frac{1}{0,1} + \frac{1}{0,1} - 1\right)$

WEEK6_POJER

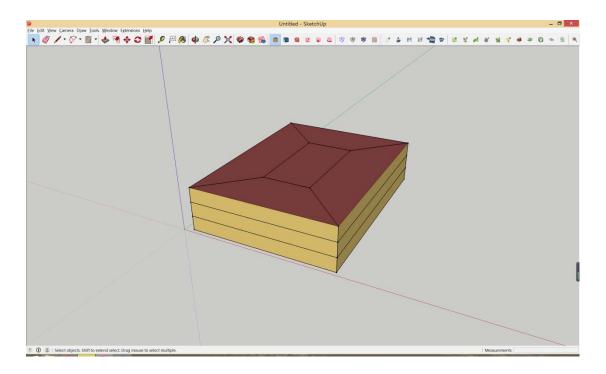
Task 2

You should create a pdf file with screenshots of all of the steps we went through (clearly from your own file) and explain briefly the reason behind the use of each step (in your own words!)

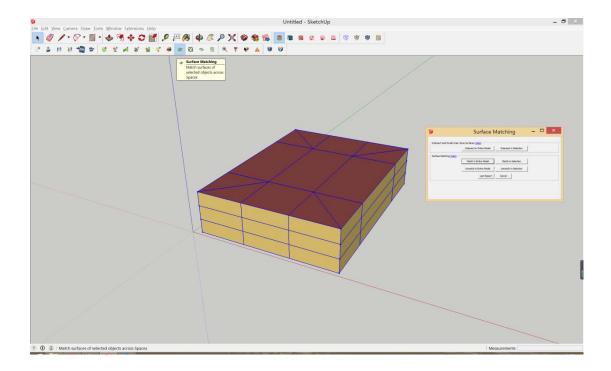
Open a Sketchup file and draw the shape of the building



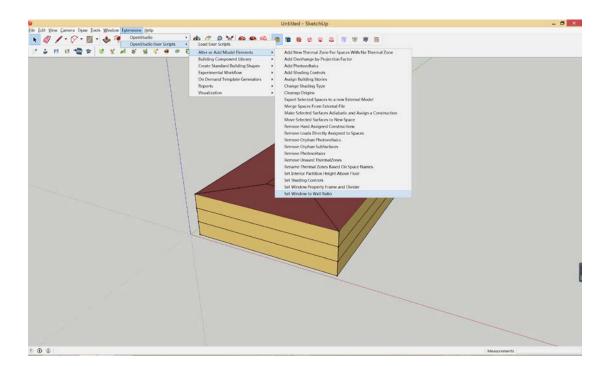
Then create a 3 floor building, using "Creat spaces from diagram"

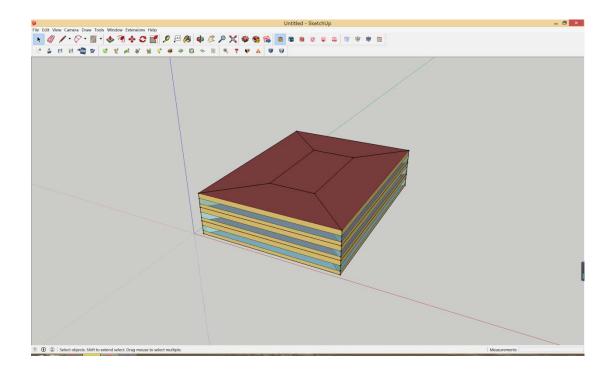


Click "Surface matching".

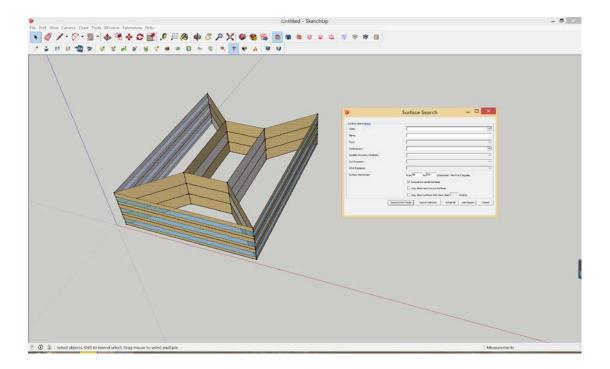


Now we build the windows, using "Set Window to Wall Ratio"

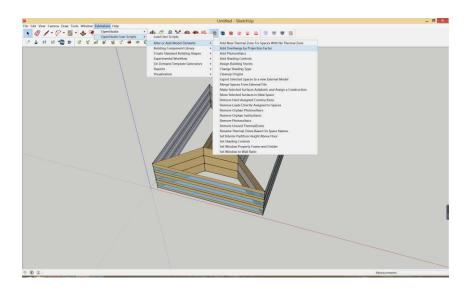


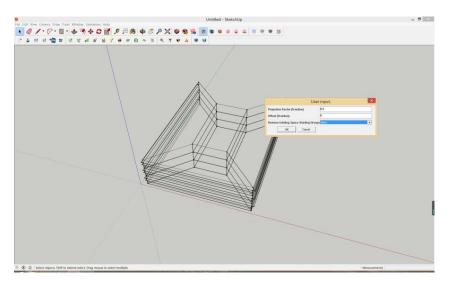


Check other directions besides the north.

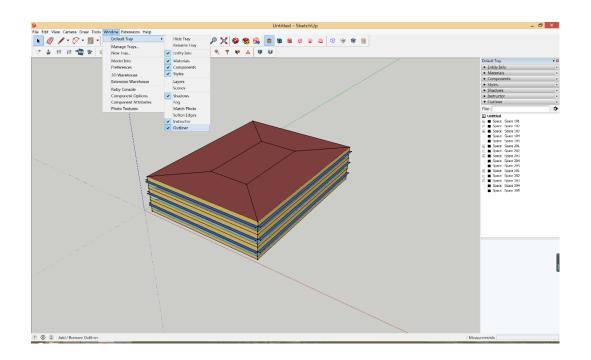


We can build overhangs, using "Add Overhanges by Projection Factor"

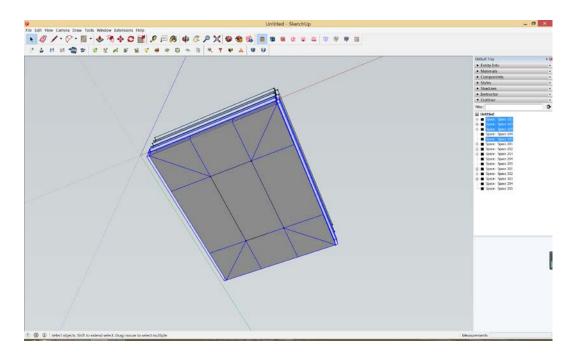




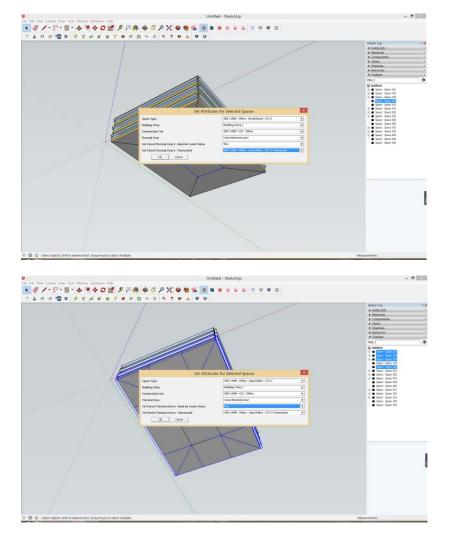
Open the "Outliner"



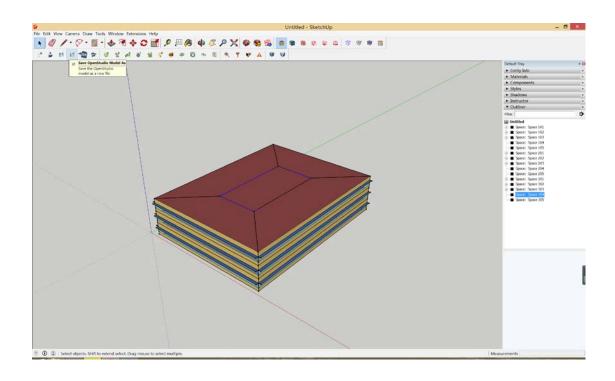
We choose the space of each thermal zone.

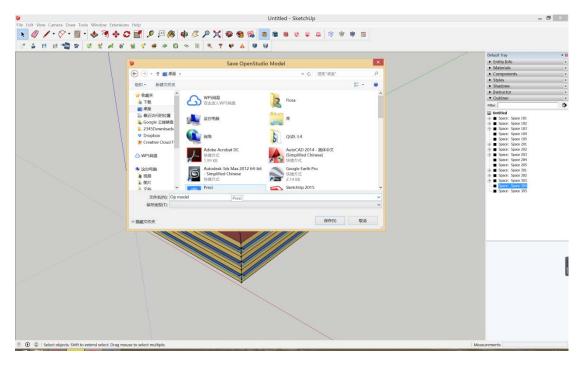


We set parameters, using "Set Attributes for Selected Space"

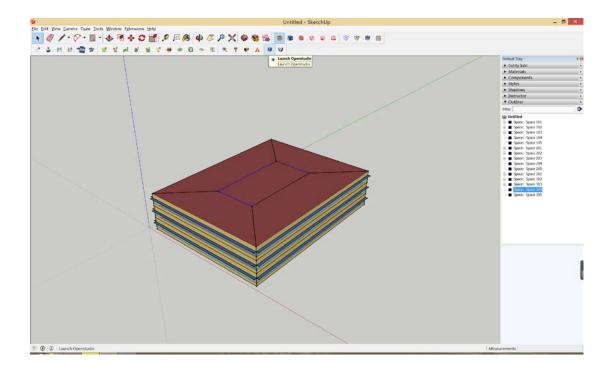


At the and we save the model.

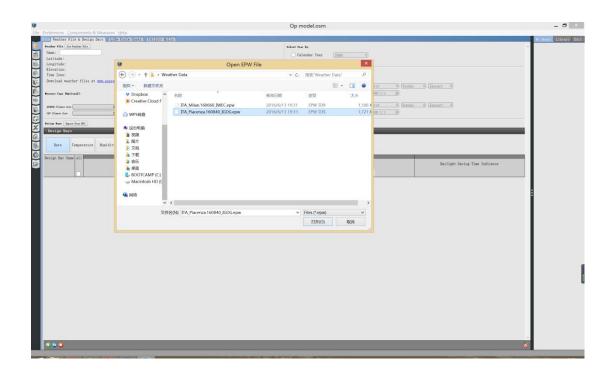




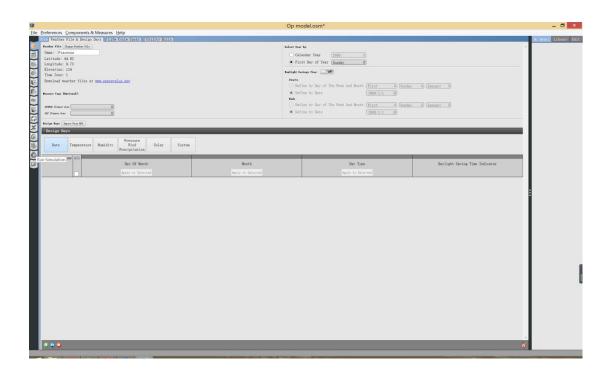
Use Open studio.

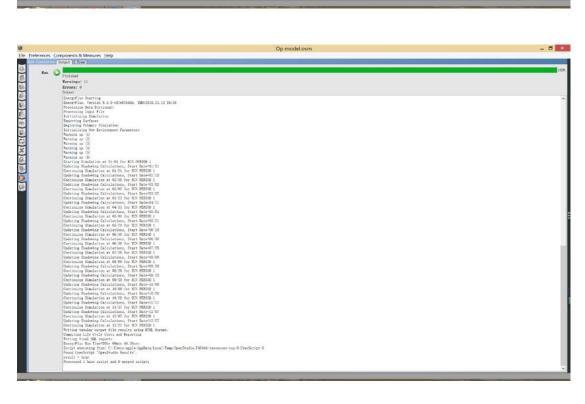


Add the weather data.



Run the analysis.





Show the result.

