## #Week 7

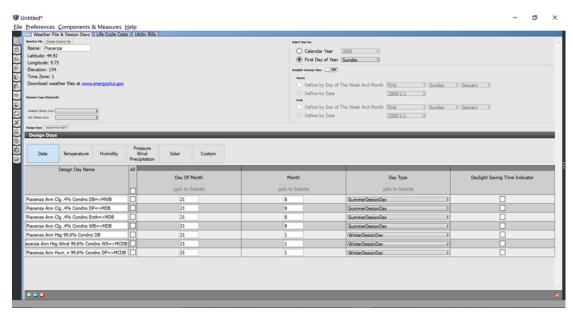
## \*\* Task 1\*\* Provide a summary of the main concepts that went through about solar radiation (formulas are not needed)

The sun continuously in the form of electromagnetic waves around the radiation of energy called solar radiation, is the sun to the space of the electromagnetic wave and particle flow. The energy transmitted by solar radiation is called solar radiant energy. Solar radiation is a kind of short-wave radiation.

The distribution of solar radiation in the upper boundary of the atmosphere is determined by the astronomical position of the earth. The climate determined by astronomical radiation is called astronomical climate. Solar radiation through the atmosphere, part of the ground, called direct solar radiation; The other part is the absorption, scattering and reflection of atmospheric molecules, atmospheric dust and water vapor. Solar radiation intensity refers to the intensity of solar radiation reaching the ground. The absorption, reflection and scattering of solar radiation by the atmosphere greatly weaken the solar radiation reaching the ground. While absorbing solar radiation, the earth's surface radiates most of its energy to the atmosphere. This way of radiating outward with its own heat day and night is called surface radiation. The amount of solar radiation reaching the ground is mainly affected by the thickness of the atmosphere. The thicker the atmosphere, the more serious the absorption, reflection and scattering of solar radiation, and the less solar radiation reaches the ground.

\*\* Task 2\*\* create a pdf file with screenshots of all of the steps we went through in the second lesson on openStudio and explain briefly the reason behind the use of each step (in your own words!)

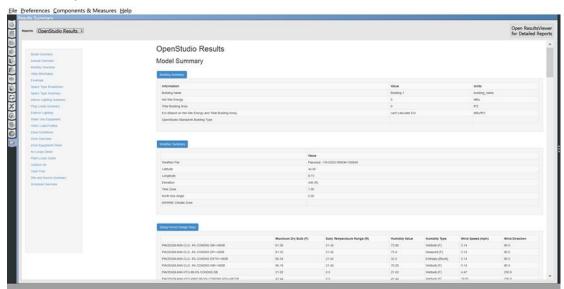




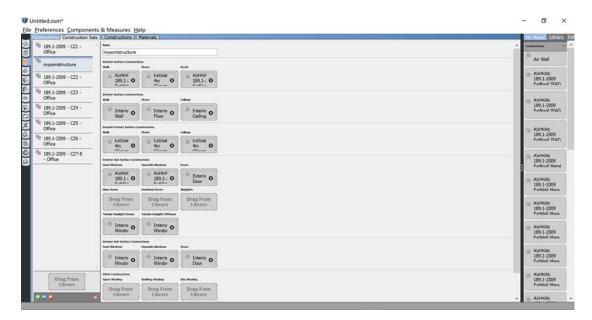
2. run simulation



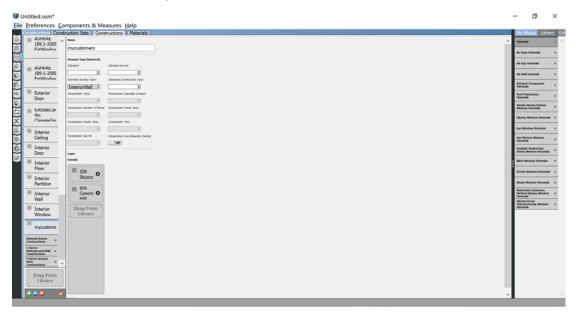
3. results analysis



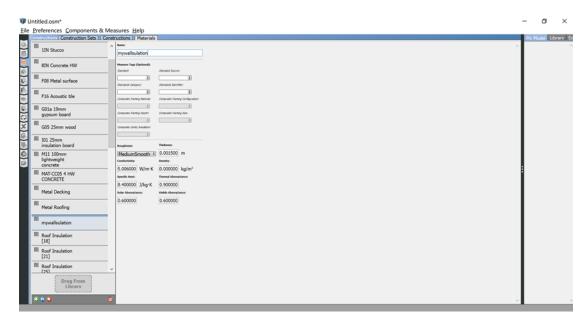
4. construction-construction set: customize the building and rename it "myconstruction"



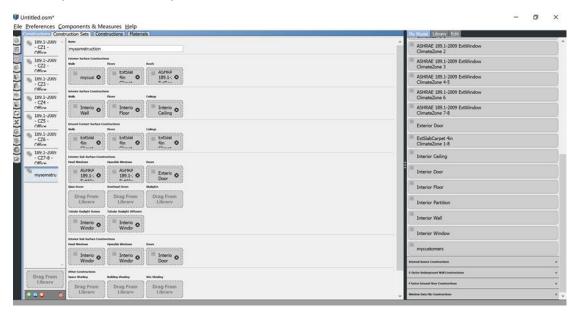
5. constructions--custom my structure



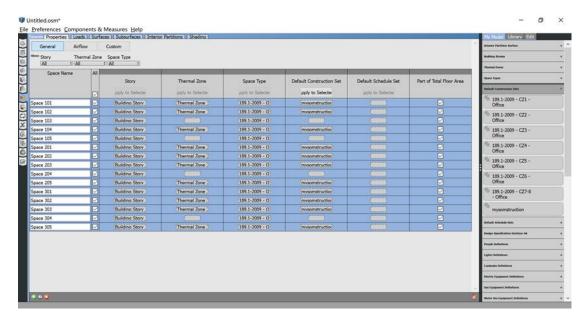
6. constructions--custom the material of my wall



7. Insert my customer into my construction set



8. "space"window: insert "myconstructionset" and apply it into the whole building



9. go to schedule set and custom all the information about people, light, electric...

