############################Checkpoint 8.1##################

1. Building is an entity because it has attributes, and it is related to multiple other entities through various relationships.
2. Room\_number is attached to the “live in” relationship because it is requires a student and building to be identified.

###########################Checkpoint 8.2####################

1. A recursive relationship is when an entity has a relationship to another entity of the same type.
2. To find a recursive relationship, you would look for a relationship that is circular, in other words, it is possible for it to have a relationship with itself.

###########################Checkpoint 8.3####################

1. The lower bound of full participation would be 1 because it is mandatory that a relationship exist.
2. 1:1 Full
3. Partial

##########################Checkpoint 8.4###################

* 1. Employee\_supervisor(employee\_id 3242, supervisor\_id 323432)

2.

a. Employee (Juan Hernandez, employee\_id)

* 1. Supervisor (John Valdosta, supervisor\_id)

###############Exercise 8.1#################

Many Students must be enrolled in more than one course.

Many students in each Course must only be taught by 1 Instructor

Each office can only have one instructor.

Each building has many offices

Many Students live in many buildings.

Each student can only live in one room but more than one students lives in each room.