Section 2 - Encapsulation and Subclassing Quiz

1. Write a simple function that returns true if an integer is negative and false if it's positive.

2. Create a class that represents a building. Include variables that keep track of the number of people living in the building, the age of the building, and how much it cost to construct the building. Then construct a building object using a constructor that takes in the age of the building and the number of people living in it.

3. Continuing from question 2, subclass the building class and call this class GovernmentBuilding. In this class, store the name of the government agency that operates in the building and whether or not the agency is top secret. When constructing a government building, you need to pass in its name.

4. Create getters and setters for the classes in questions 2 and 3 above, making sure you've encapsulated the classes so that you can only access variables directly while inside each class.

5. In the videos, we discussed how classes could have methods via getters and setters. Create a method that adds one to the age of the building.