Assignment 3

1. Problem 1 (Hamburger Class)

Write a class called Hamburger.

The Hamburger class should have the following private fields:

1. weight – an int storing the weight of the hamburger patty in ounces
2. doneness – a String which stores how well the burger is cooked i.e., rare, medium, well done, etc.
3. cheese – a boolean indicating whether the burger has cheese or not
4. toppings – a list of Strings storing the toppings on the burger i.e., lettuce, tomato, mayonnaise, etc.

The Hamburger class should have the following methods:

1. a constructor
2. getter and setter methods for each of the fields
3. a bite method – the bite methods should reduce the weight of the burger by 1 ounce each time it’s called until the weight is 0.
4. \_\_str\_\_ method

In the same file, write a main function to test the functionality of the Hamburger class.

1. Problem 2 (socialEvent Class)

Create a class SocialEvent with 3 attributes: Event title, date, and number of attendees. For simplicity, we won’t restrict the date to a specific format. The class should contain a constructor, accessor and mutator methods (getters and setters), and a display method. In the same file, write a main function that prompts the user to input 5 events. The function outputs the events **sorted** by number of attendees.