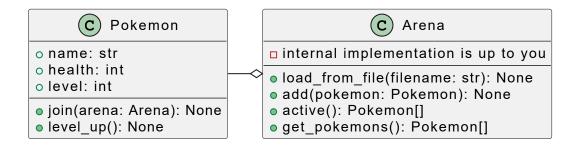
ACIT2515 - coding assignment

Pokemon relationships



Pokemon

A Pokemon has the following attributes:

- name (string)
- health (integer)
- level (integer)

The constructor ONLY receives name and health. A new Pokemon will always have its level set to 1.

- the name must be a non-empty string
- health must be a strictly positive integer
- if any of these conditions is not respected, raise a ValueError exception.

You can check your code with the tests in test_pokemon.py. Note: the join method will be tested later (see below).

Arena

An arena is a place where pokemons get together.

- an arena contains pokemons
- you can add a pokemon to an arena: this uses add on the arena instance. Only pokemons or creatures inheriting from pokemons can be added to an arena.
- a pokemon can also join an arena with the join method: pokemon.join(arena). Implement this method on the Pokemon class. Do not make any type checks you only need a single line of code in that method!
- the active method returns a list of all active pokemons (i.e. whose health is > 0) in the arena
- the "length" of the arena is the number of active pokemons in it
- the method get_pokemons returns a list of all pokemons, sorted by name
- it is possible to load pokemons from a file into an arena with the load from file method
 - load_from_file takes one argument: the name of the file to read from
 - the file is in CSV format and has three columns: name, health and level of the pokemons

Submission and grading

- Make sure all tests in test_arena.py and test_pokemon.py pass.
- Submit your files to D2L.
- 1 mark per test = **10 marks total**
- Comments, formatting, code quality: 2 marks