

Problem Wk.1.4.5: OOPs

Part 1: Assign

Write a procedure, called `assignThing`, that takes two `ThingS`, `thing1` and `thing2`, as arguments and sets the stored value (`x`) of `thing1` to the stored value of `thing2`.

Use the `set` and `get` methods of `Thing`, do not access `x` directly.

Part 2: Swap

Write a procedure, called `swapThing`, that takes two `ThingS` as arguments and swaps (interchanges) the stored values, (`x`), of the input `ThingS`

Use the `set` and `get` methods of `Thing`, do not access `x` directly.

Part 3: Sum

Write a procedure, called `sumOfThings`, that takes two `ThingS` as arguments and returns a new `Thing` whose stored value, (`x`), is the sum of the stored values of the input `ThingS`.

Use the `set` and `get` methods of `Thing`, do not access `x` directly.

Part 4: Sum of All

Write a procedure, called `sumOfAllThings`, that takes a **list** of `Thing`s as its argument and returns a new `Thing` whose stored value, (`x`), is the sum of the stored values of all the input `Thing`s. The sum of an empty list is 0.

Use the `set` and `get` methods of `Thing`, do not access `x` directly.

Python has a built-in function `sum` that will be useful. Look up its definition in the [documentation](#).

You must use a list comprehension in your answer.

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