Exercises - Session 17

In case you get stuck anywhere, don't be afraid to ask the coaches! They are here to help and will gladly explain everything to you!
Take notes during the exercises. Even if you never look at them again, they will help you memorise things!

<u>Classes & Objects</u>

1. Recreate the `Person` class from the slides in your code. Don't copy and paste, but type each of the lines individually. The `Person` class has two instance variables: a name and the year she/he was born. Those are set via a constructor. Additionally, the `Person` class has two instance methods: One called "`name`" which returns the person's name and one called "`age`" which calculates and returns the person's age in years.

2. Now that you have the class in place, we'll create some instances (objects) of that class. Create a new `Person` instance for each of the people at the current Ruby Monstas session. If you don't know their name and year of birth, ask them ;) (If they don't want to tell you their year of birth, choose something flattering for them instead).

3. Add all the `Person` objects you created to an array. Then loop over the array and output name and age for each person.

4. Add some more methods and instance variables to the `Person` class and fill your instances with data. Here are a few ideas:
    - `location`: The city where the person lives
    - `last_name`: The last name of the person. Also add a `full_name` method which outputs `name` and `last_name` concatenated.
    - `hobbies`: The person's hobbies. Add an instance variable `@hobbies` to the class. It should be an array containing all the person's hobbies. Add a method `add_hobby` which appends another hobby to the person's list of hobbies. Also add a `hobbies` method which returns the array.

<u>Optional Part</u>

Add another method called `is_the_same?` that compares two `Person` instances: It should work by comparing the `@name` and `@year_born` instance variables of the two objects. Here is an example irb-session that uses the method:

```
irb(main):001:0> p1 = Person.new("Thomas", 1988)
=> #<Person:0x007fb9111dac28 @name="Thomas", @year_born=1988>
irb(main):002:0> p2 = Person.new("Ferdinand", 1987)
=> #<Person:0x007fb9111d34a0 @name="Ferdinand", @year_born=1987>
irb(main):003:0> p3 = Person.new("Thomas", 1988)
=> #<Person:0x007fb9128601f0 @name="Thomas", @year_born=1988>
irb(main):004:0> p1.is_the_same?(p2)
=> false
irb(main):005:0> p1.is_the_same?(p3)
=> true
irb(main):006:0> p3.is_the_same?(p1)
=> true
```