

## Python Exercises

### Classes

1.

- a. Create a new class named "Person" that have an initiate (`__init__`) with three inputs, "first\_name", "last\_name", "birthyear" and an optional "domain" (default to None). each input should be saved in the class using "self".
- b. Add a variable outside `def __init__` (like `pi` and `shape` for the circle class), called `default_domain`, and set it to "online.com"
- c. Inside `__init__`, add a class variable (using `self`) called `email`. The email should be set to `<first name>.<last name>@<domain>.com`.  
If domain is None, set it to `default_domain` from b)
- d. Add a new method named "age" which takes no input (only `self`), and uses the saved `birthyear` to return the age of the person. The formula `2021-birthyear` is good enough for the age method. But feel free getting more accurate results using the `datetime` package and change `birthyear` in `__init__` for `birthdate`.
- e. Add a method to the "Person" class, called "full\_name", that takes no input (only `self`) and return the full name of the person. The full name can be created using the saved first and last name in the person class.

- f. Try to use the class and initiate a few People and see if the class are working correct. Add methods help-comments and see if the help and dir functions is working well for your class
- g. Feel free to add more variables or methods that you see suitable for the class Person.