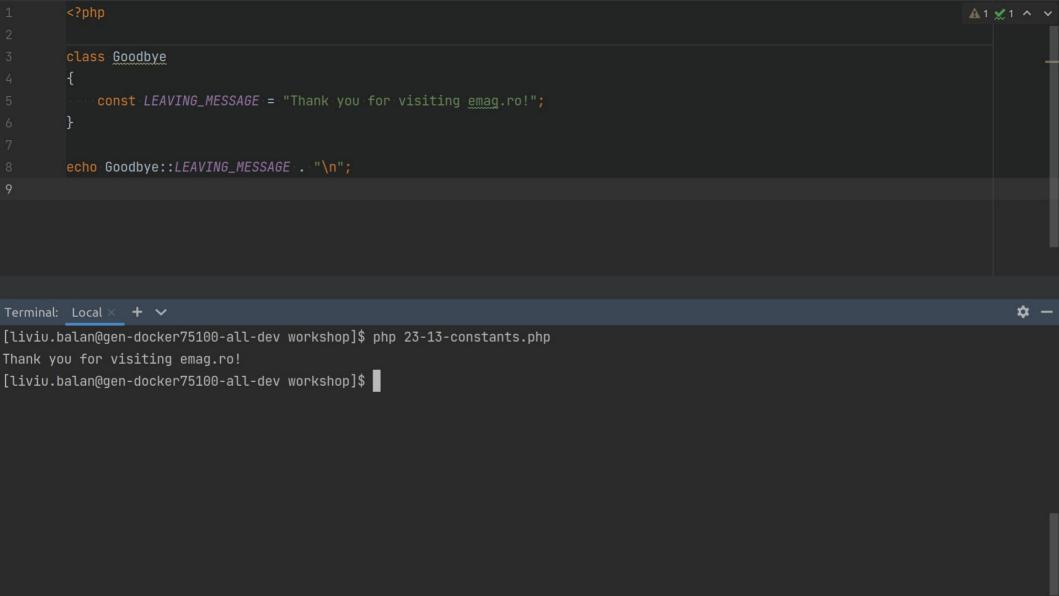
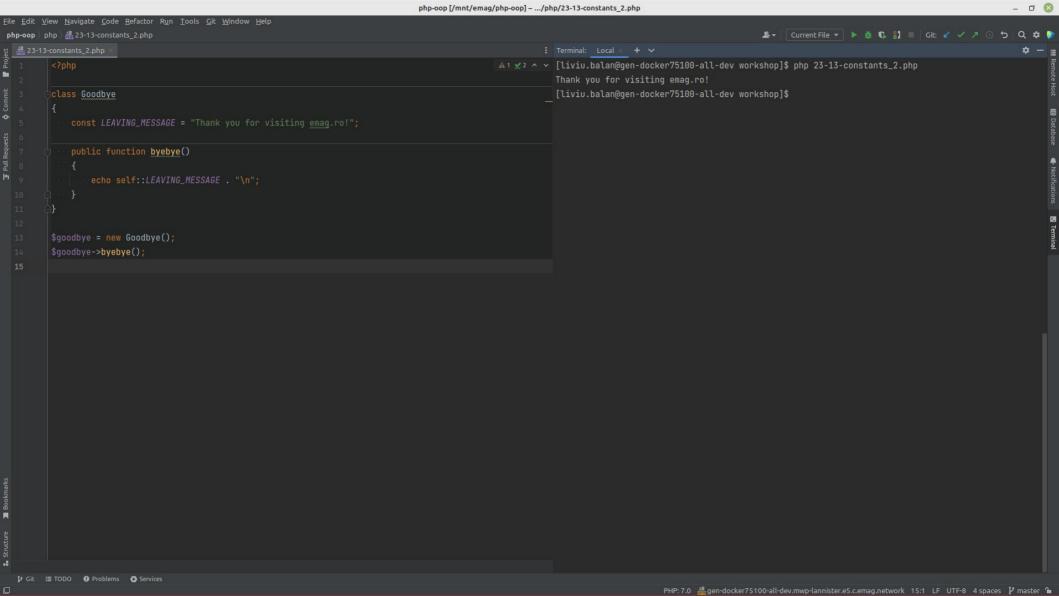
Workshop PHP Part 3

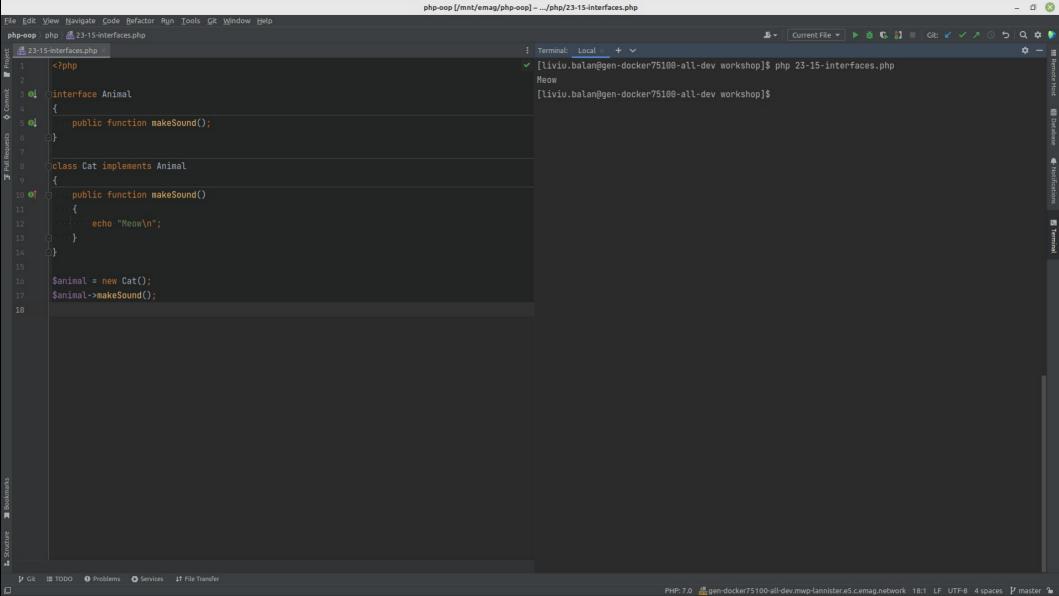
Liviu Bălan





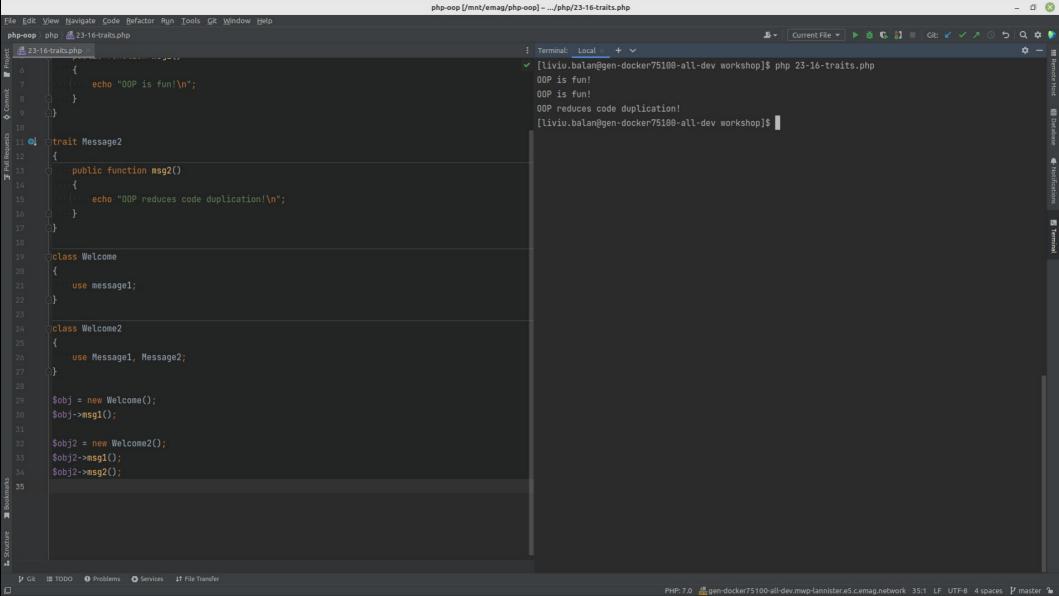
<u>Interfaces vs. Abstract Classes</u>

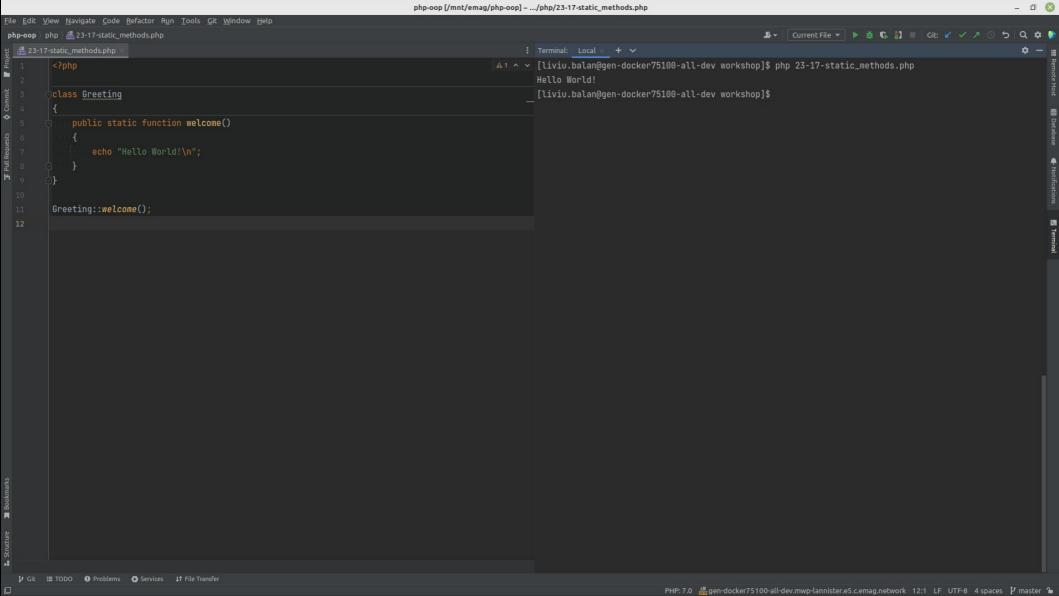
- Interfaces cannot have properties, while abstract classes can
- All interface methods must be public, while abstract class methods is public or protected
- All methods in an interface are implemented in code and the abstract keyword is not necessary
- Classes can implement an interface while inheriting from another class at the same time

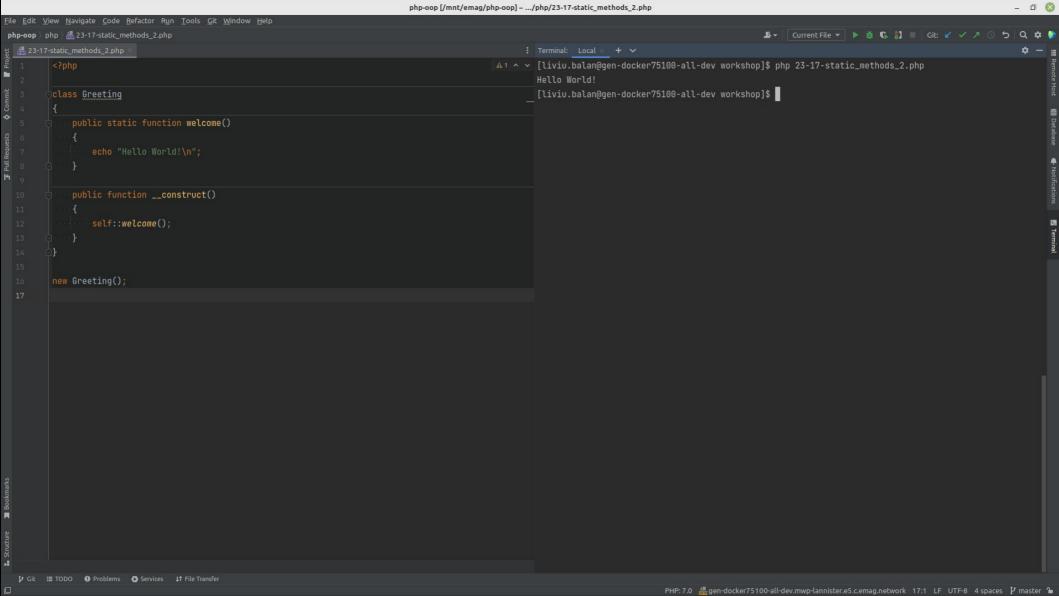


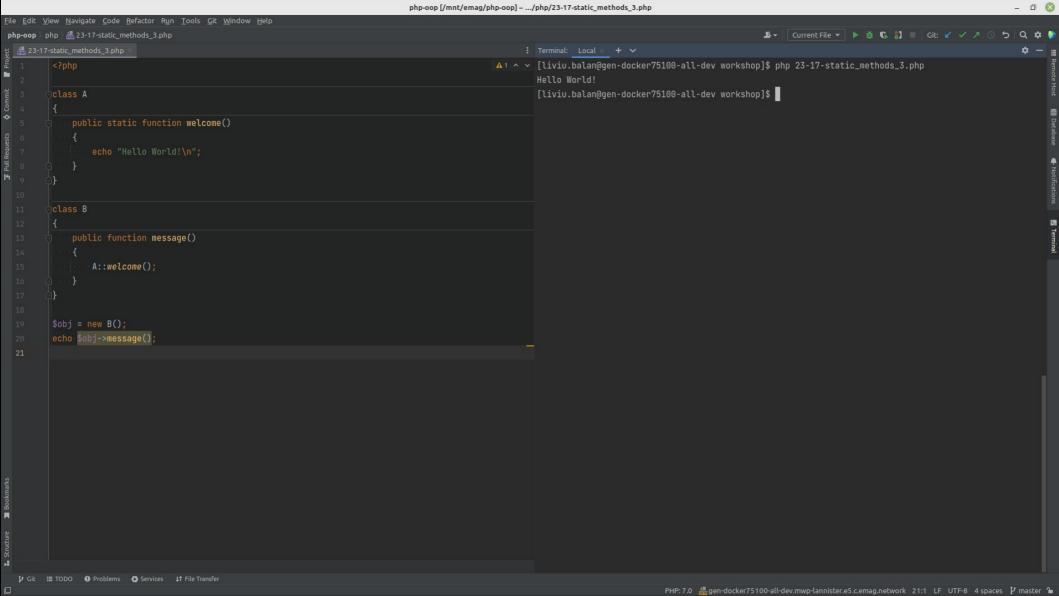
Traits

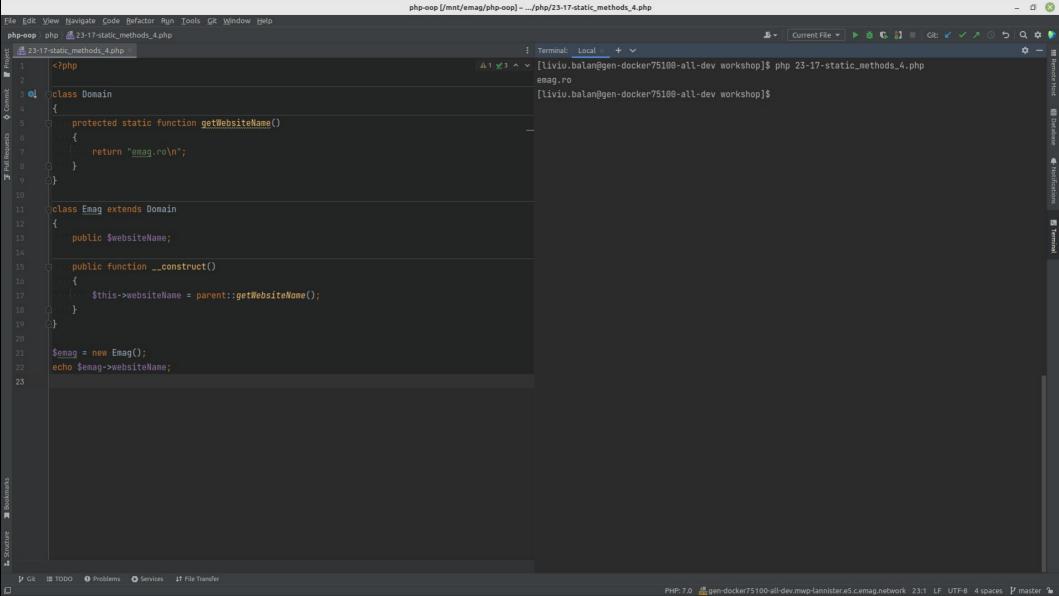
- PHP only supports single inheritance: a child class can inherit only from one single parent.
- What if a class needs to inherit multiple behaviors? OOP traits solve this problem.
- Traits are used to declare methods that can be used in multiple classes.
- Traits can have methods and abstract methods that can be used in multiple classes, and the methods can have any access modifier (public, private, or protected).

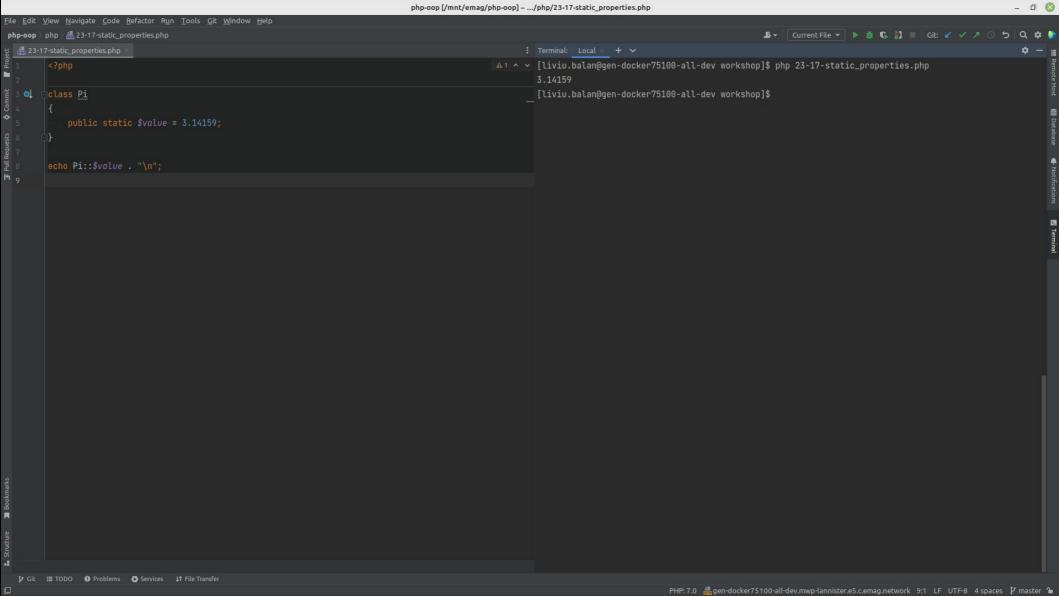


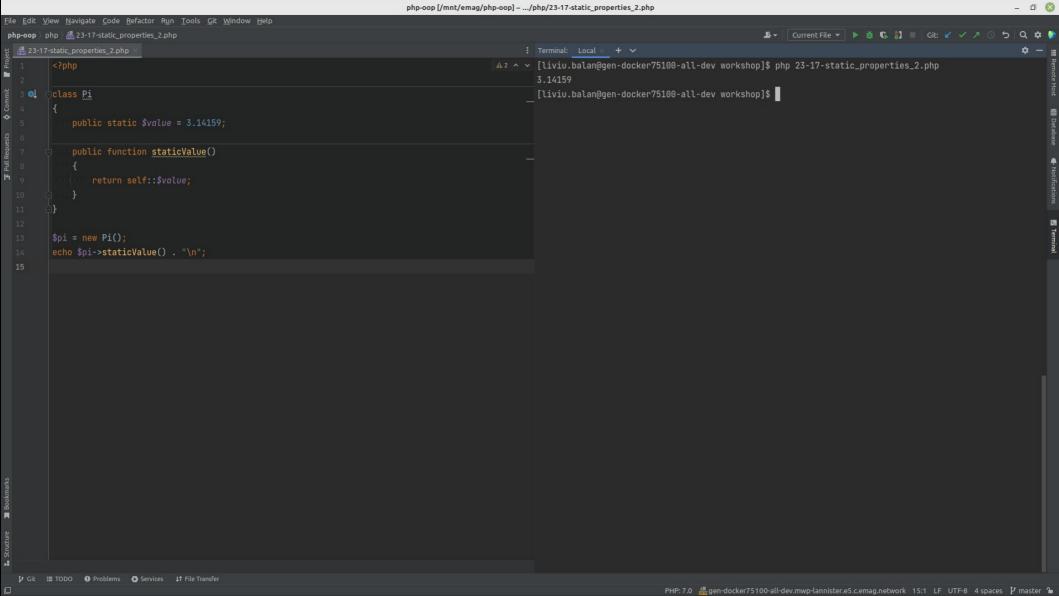


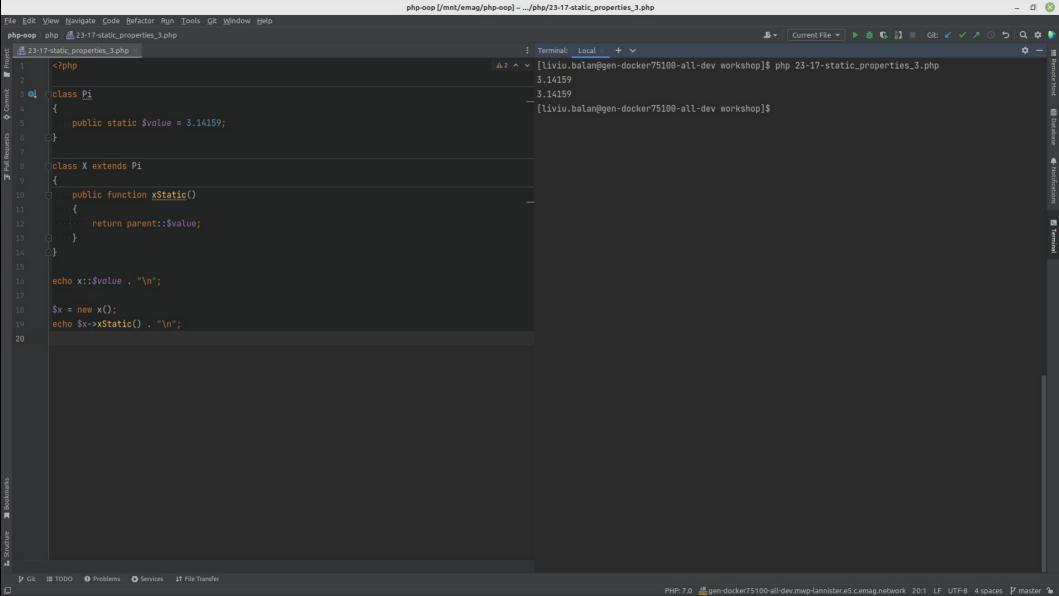






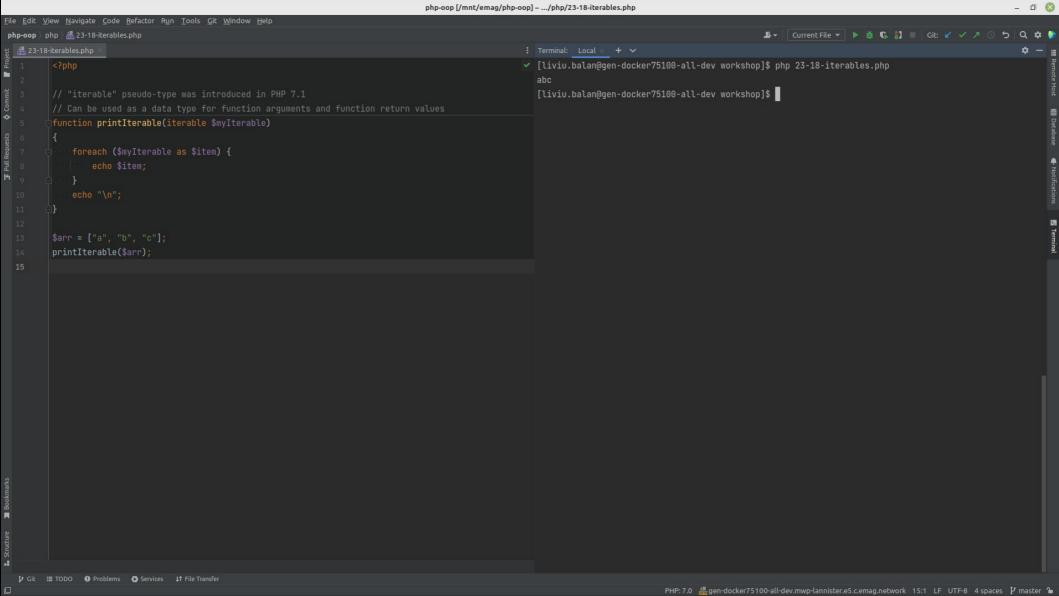


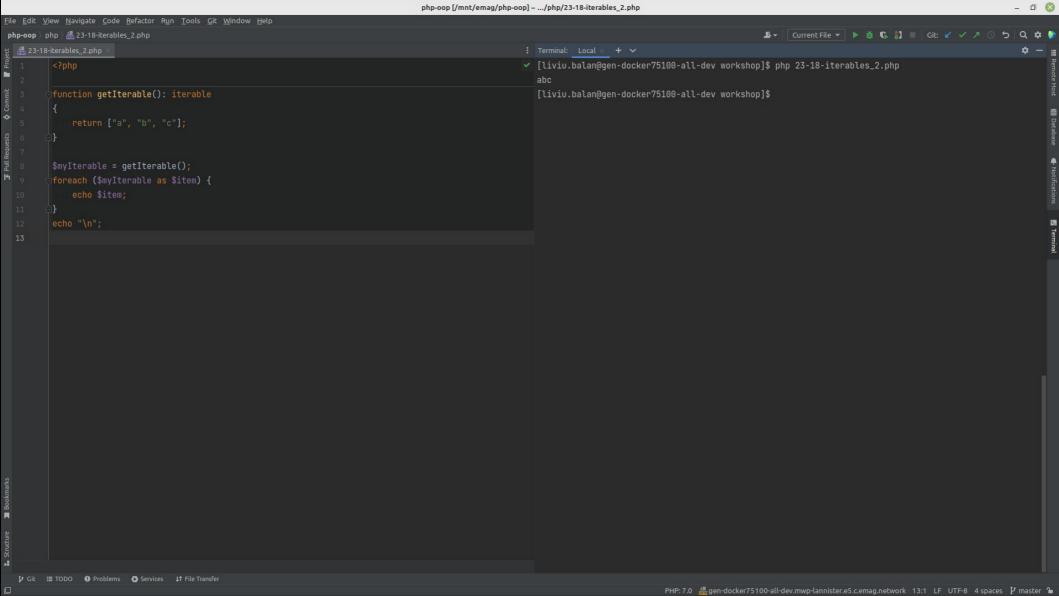




Creating Iterables

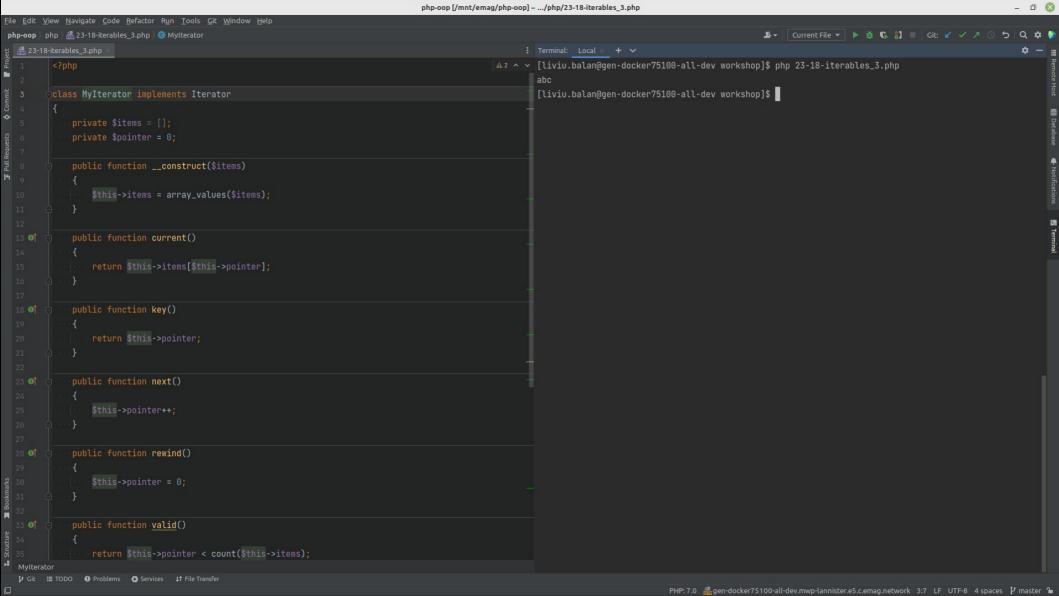
- All arrays are iterables
- Any object that implements the Iterator interface can be used as an argument of a function that requires an iterable





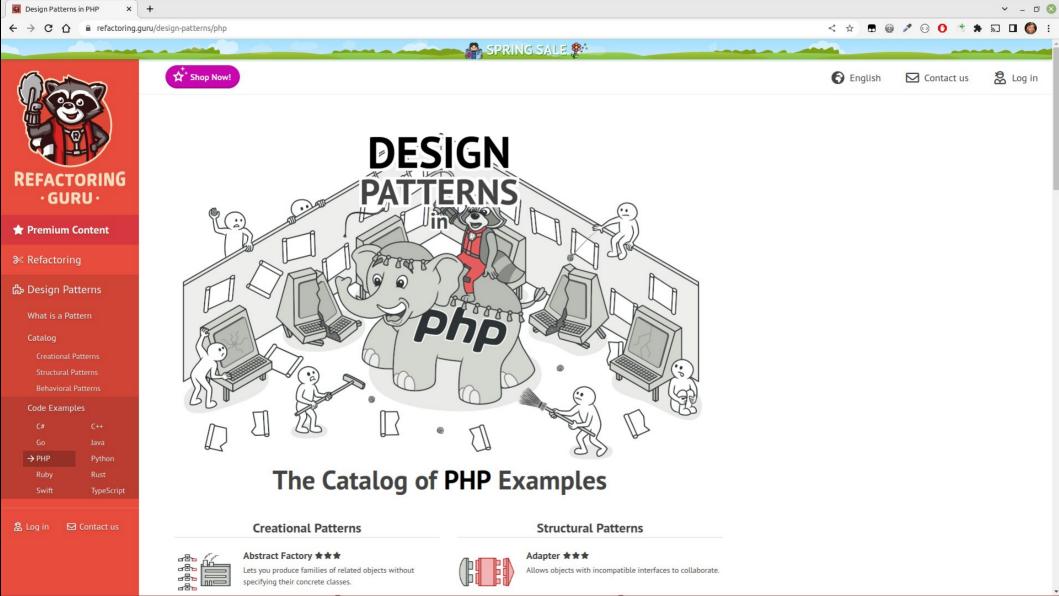
Iterator methods

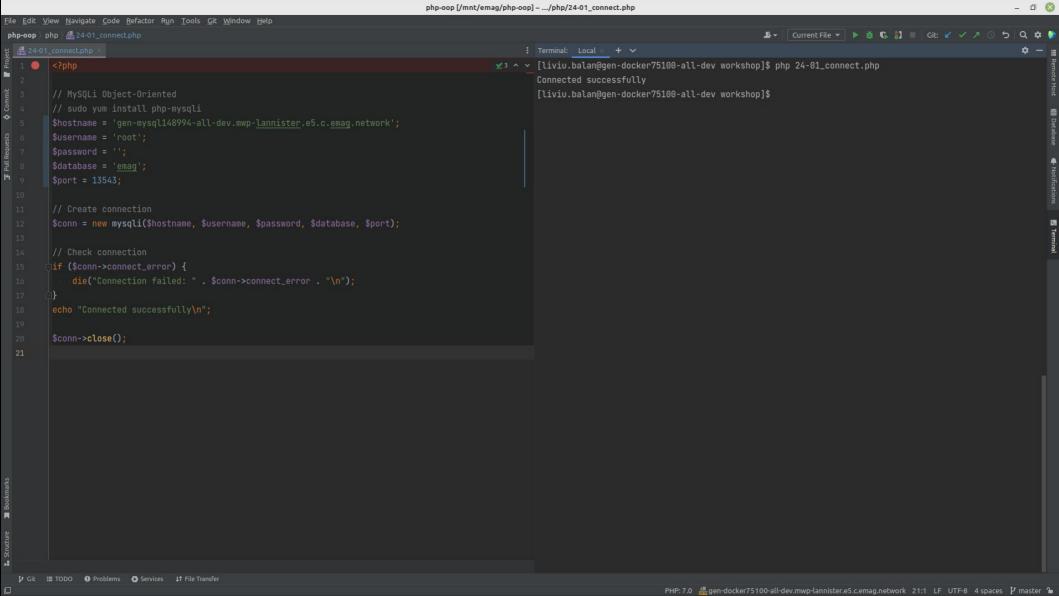
- **current()** Returns the element that the pointer is currently pointing to. It can be any data type
- **key()** Returns the key associated with the current element in the list. It can only be an integer, float, boolean or string
- next() Moves the pointer to the next element in the list
- rewind() Moves the pointer to the first element in the list
- valid() If the internal pointer is not pointing to any element (for example, if next() was called at the end of the list), this should return false. It returns true in any other case

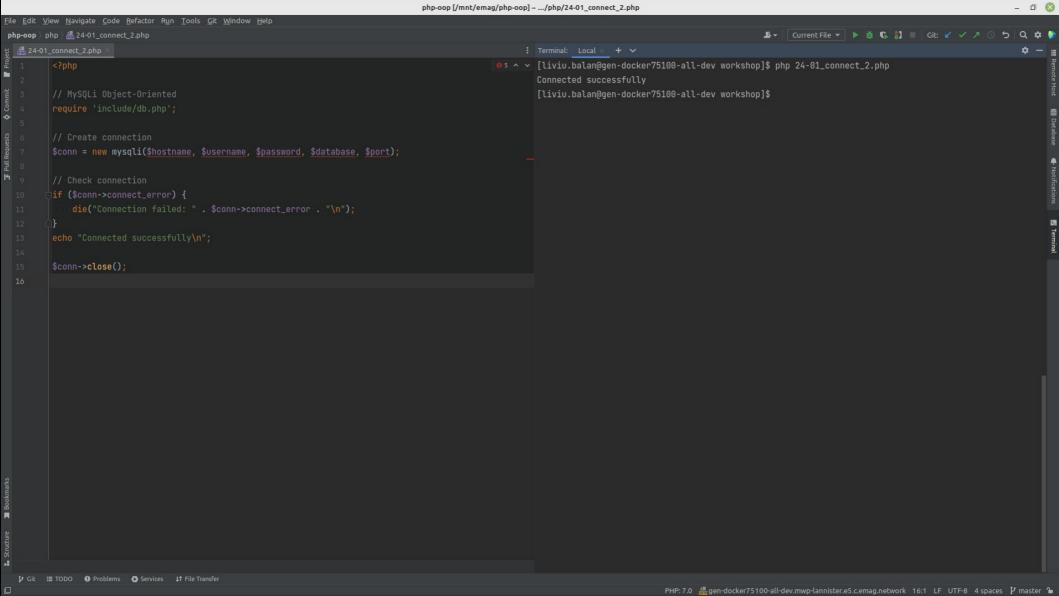


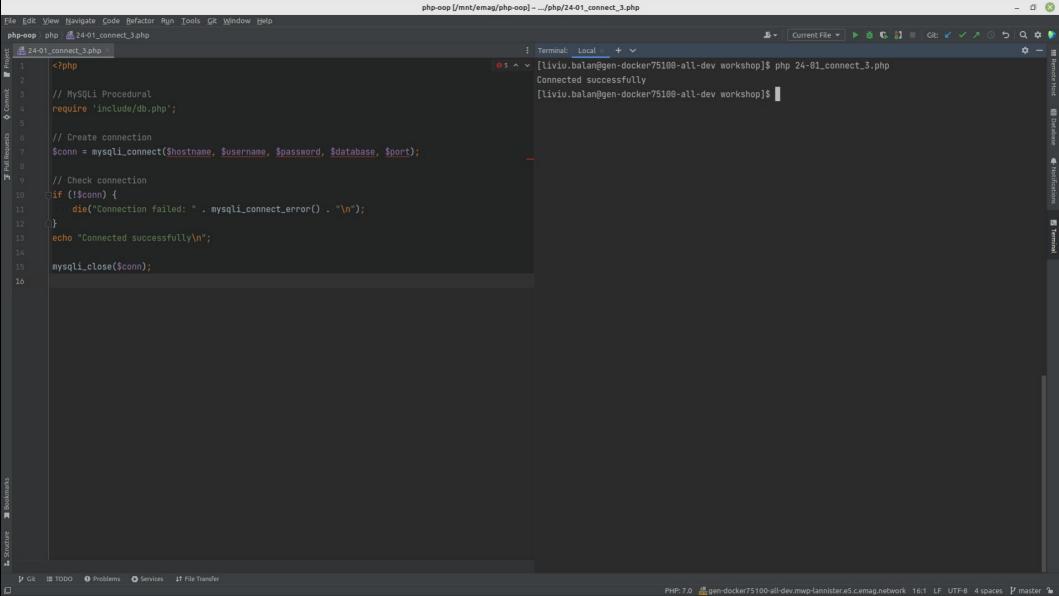
<u>Design patterns</u>

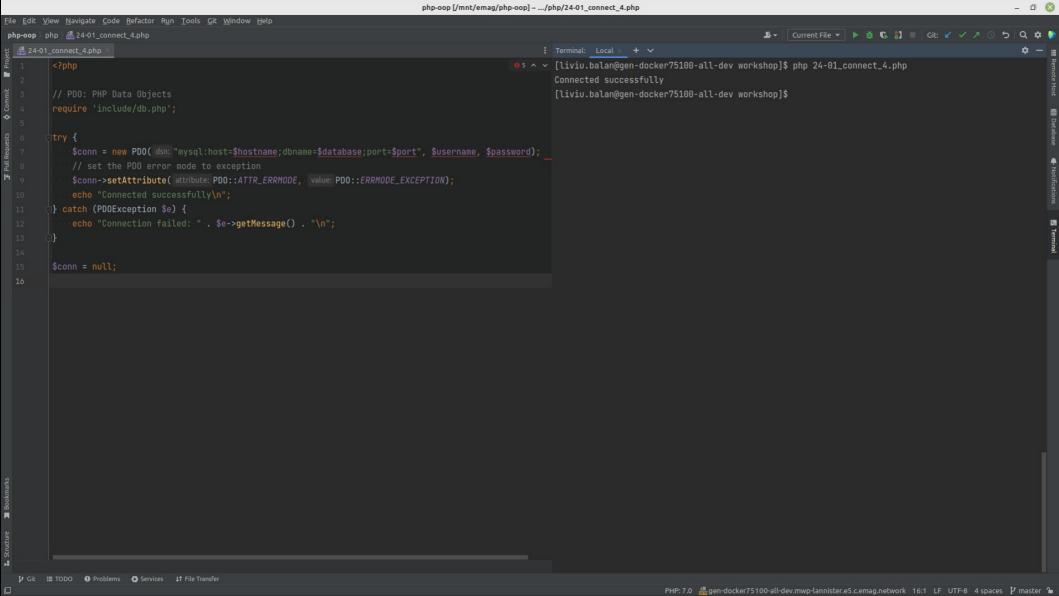
https://refactoring.guru/design-patterns/php

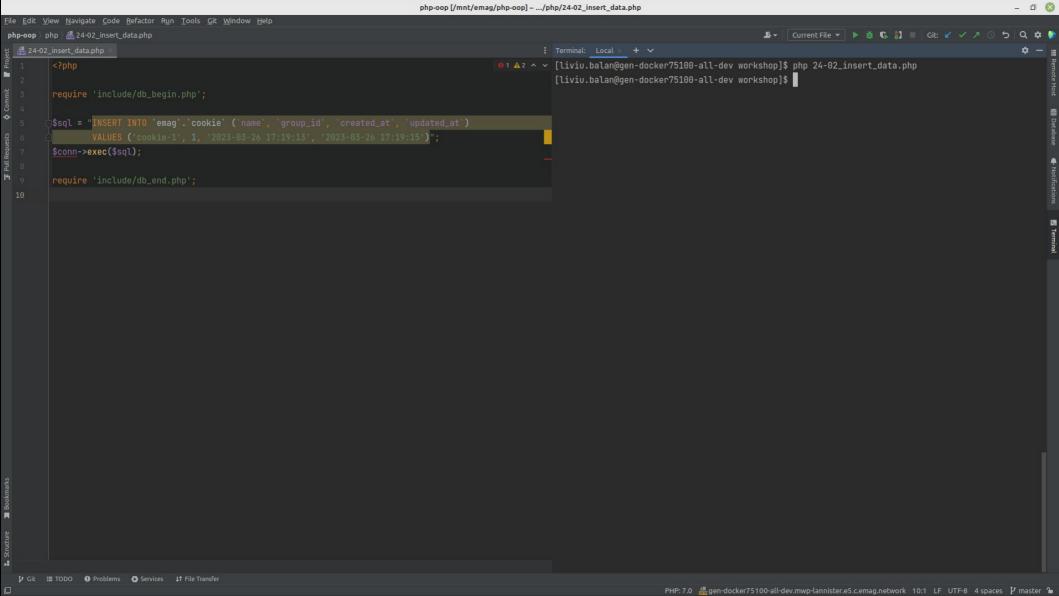


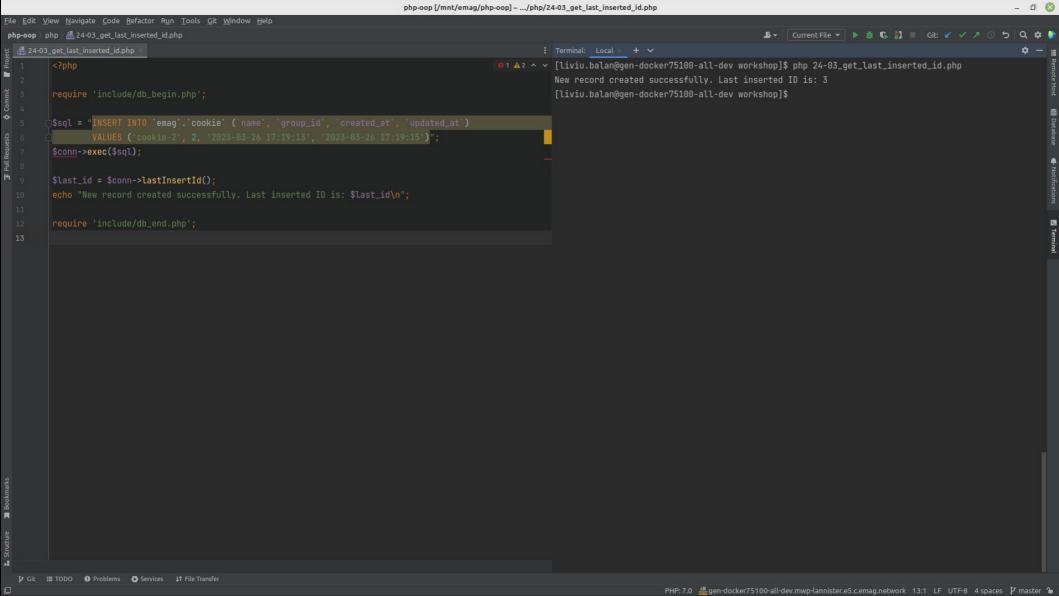


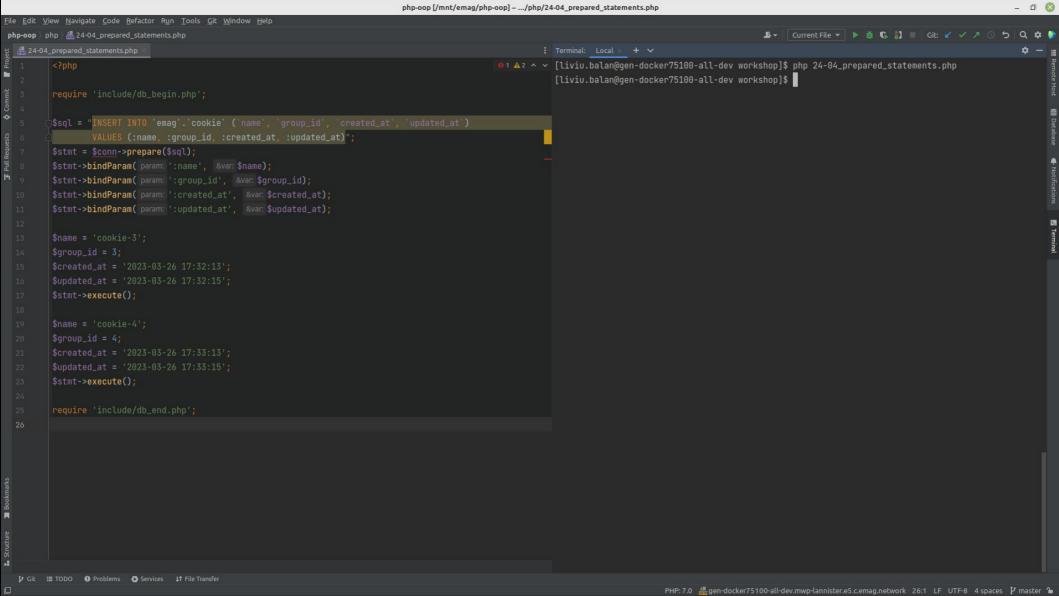


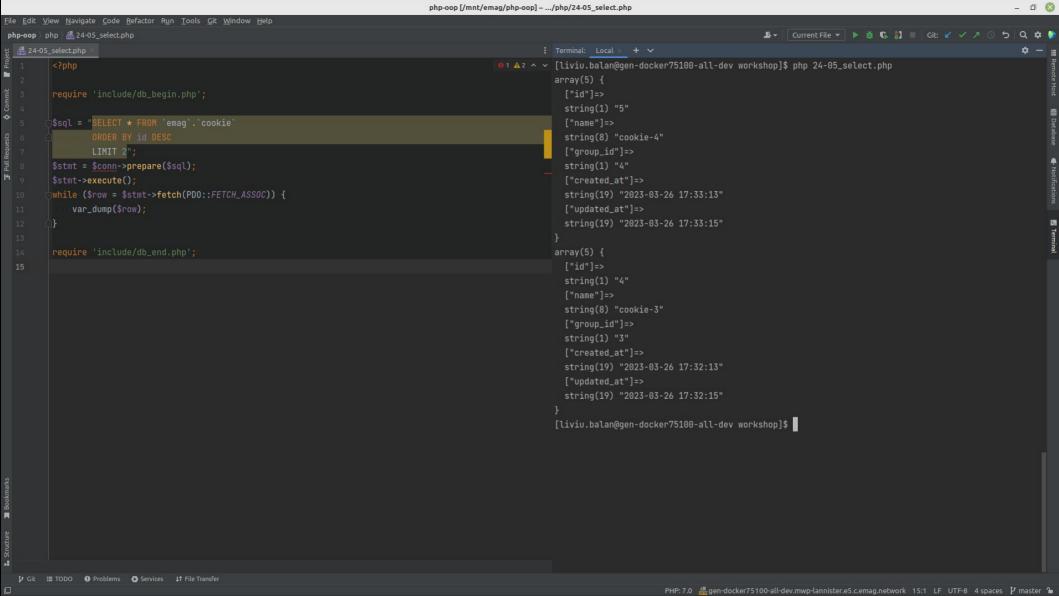


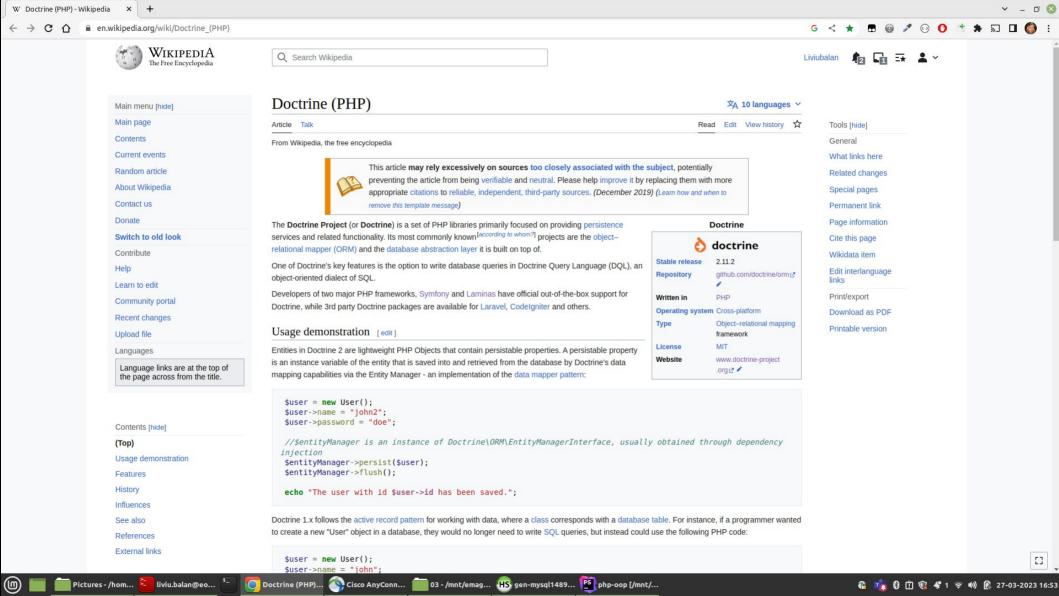


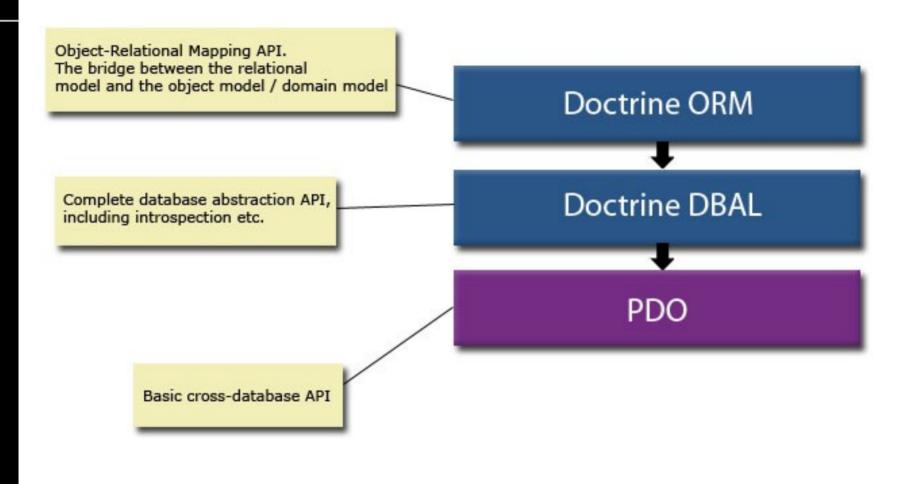












Q&A

Practice