-Singleton-

Problem: A bank manager needs to upload a series of new accounts. The account must be uploaded one at a time, so there are no duplication errors.

Solution: Making an upload method by listing the accounts the bank manager, the bank and the total payment per account.

Implementation: Applying singleton on the adding method so it can't be called twice. Making only one upload per bank manager.

-Factory-

Problem: A delivery office have diverse cost of delivery depending on the product price, depending on these last it could be, default, express or free.

Solution: Making different classes of the delivery type depending on the product price.

Implementation: Applying factory to select the or change the attitude of the delivery type, by if statements depending on the price entered by the user.

-Strategy-

Problem: A calculation device needs to be able to make four types of operations.

Solution: Making diverse classes as a new strategy depending on the operation selection.

Implementation: Applying strategy there is no need to change nothing else than the method to use by one operator symbol, making more extensible the program if it is needed.

-Iterator-

Problem: A stock department needs to upload and consult a product list, by id and name.

Solution: Making a method to upload a list of products by id and name and using the iterator to consult the list later.

Implementation: Applying the iterator pattern it consults the list of products and shows them id and name.

-Decorator-

Problem: A Smartphone automatic verification, gets a cellphone and checks its operative system. Where depending on it, it will have diverse attitude, being the operative systems Windows, Android and iPhone.

Solution: Making several methods to simulate the power on and off the cellphone, to navigate on the web and to unlock the phone, by just selecting the smartphone type the attitude changes.

Implementation: By implementing the decorator, the method on the attitude, changing the logo showed wen powering on the cellphone and the ways you navigate or unlock the phone