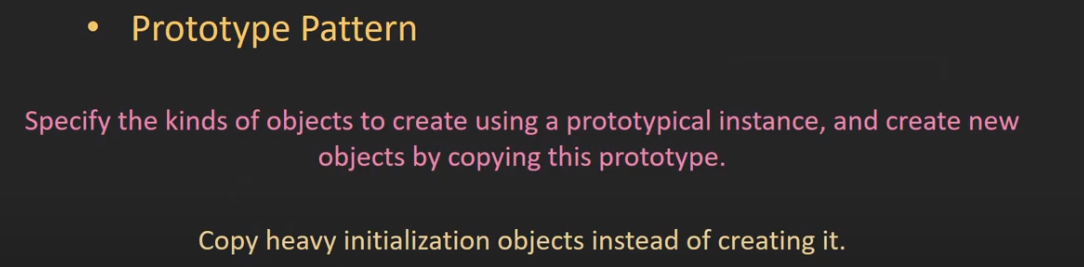
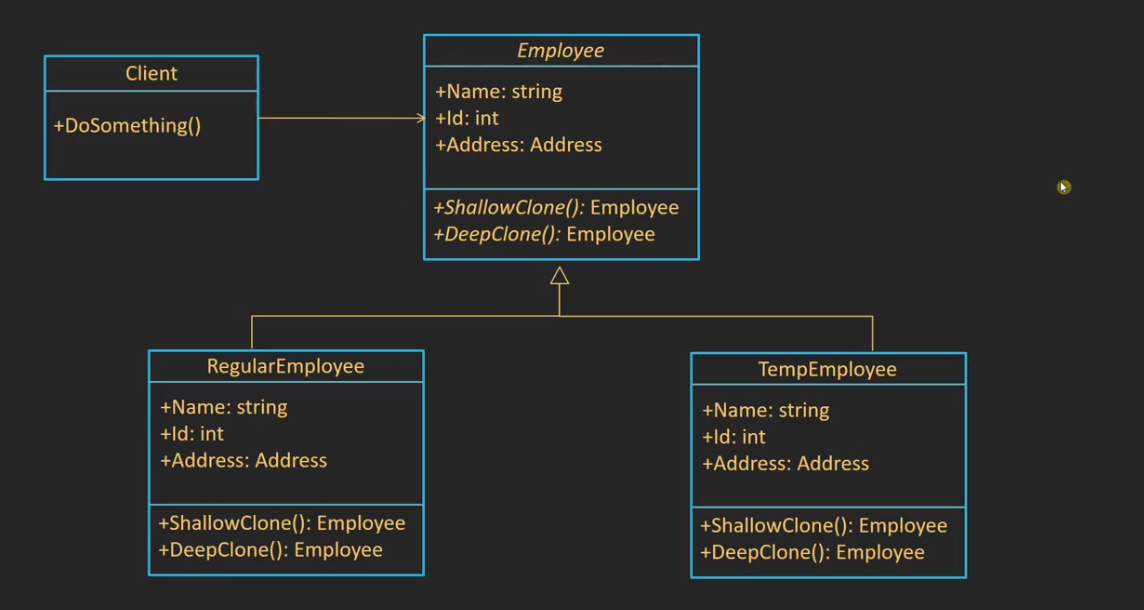
# Singleton design pattern

## 

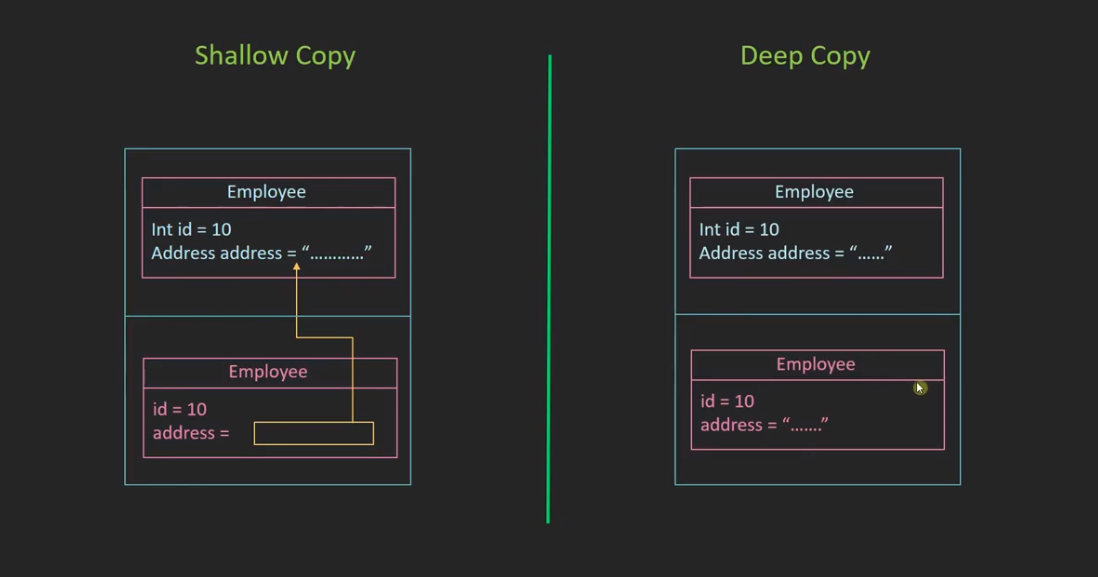
# Prototype design pattern



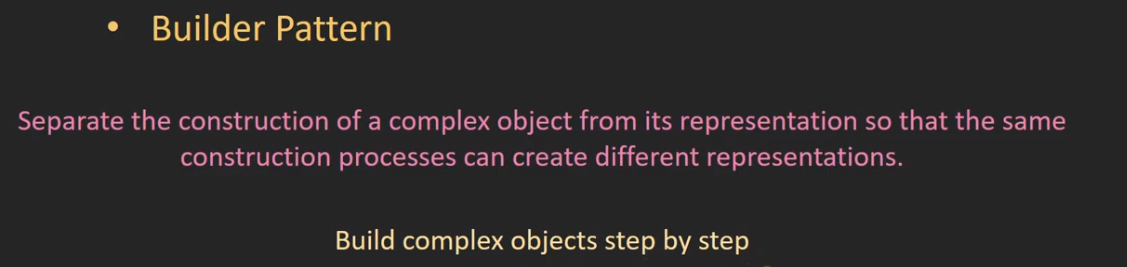
Class diagram

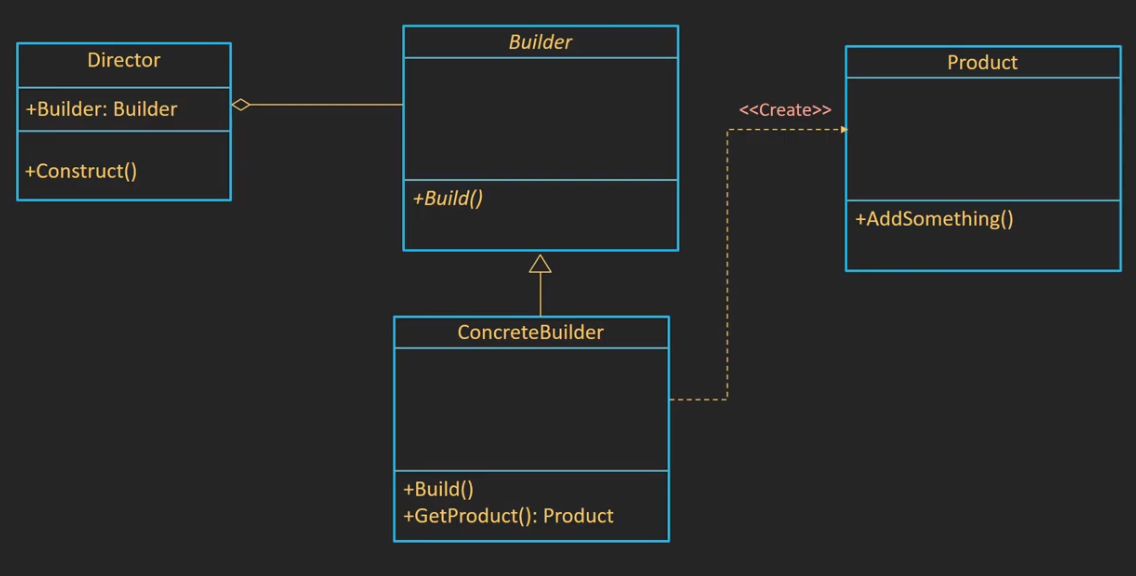


## Shallow copy vs deep copy

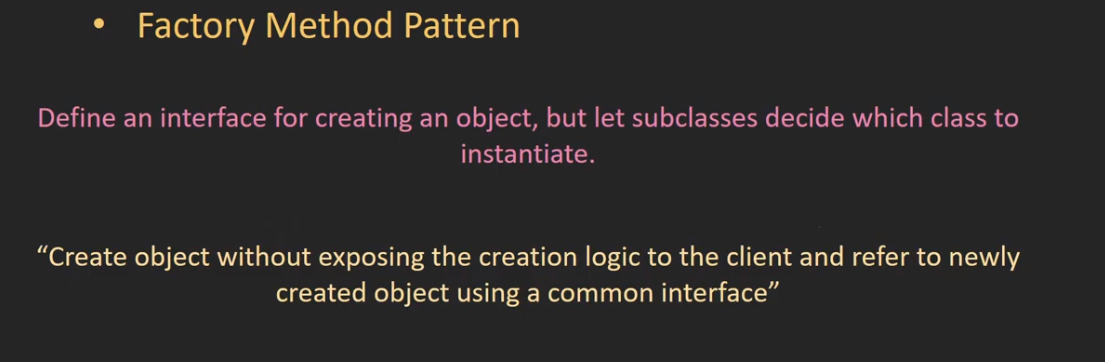


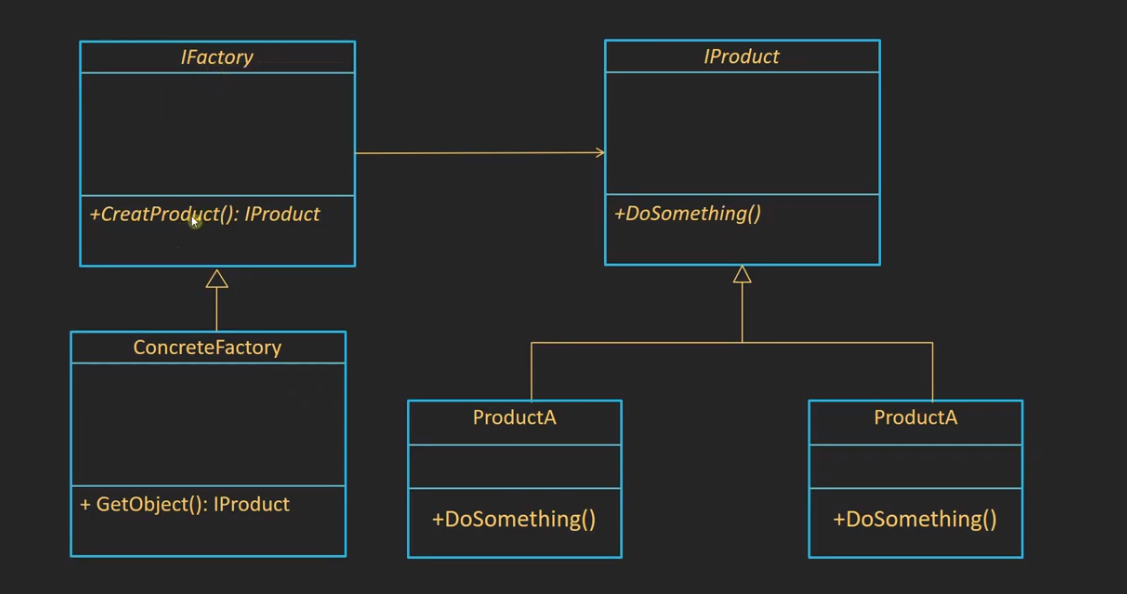
## Builder design pattern



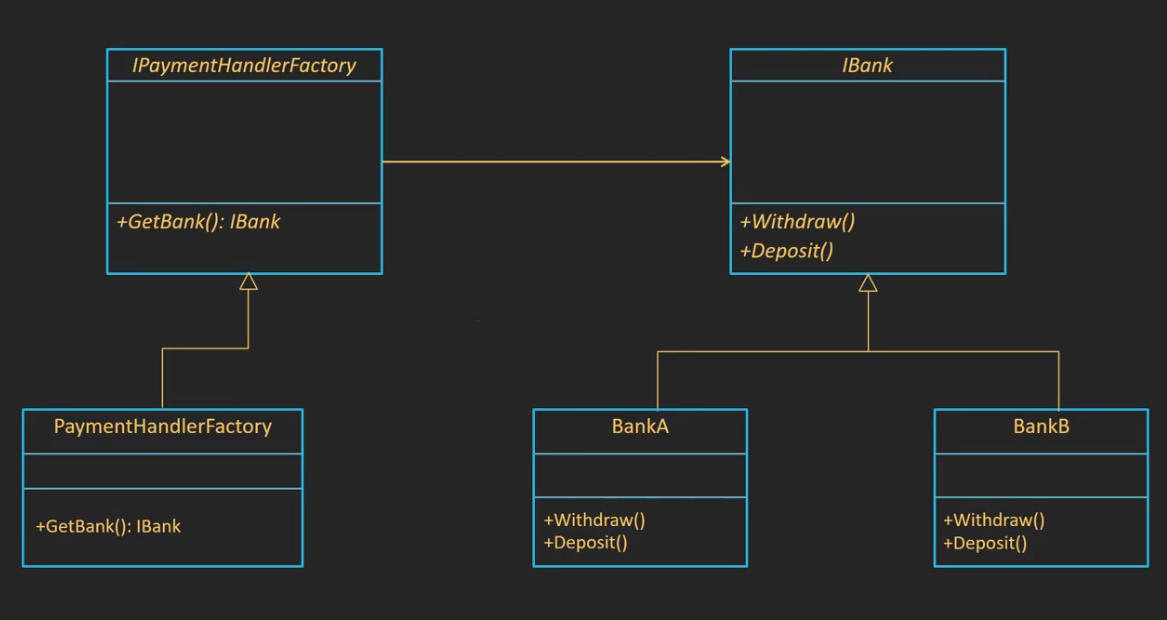


## Factory design pattern





EX



## Abstract Factory design pattern

The factory can create more than interface of obj