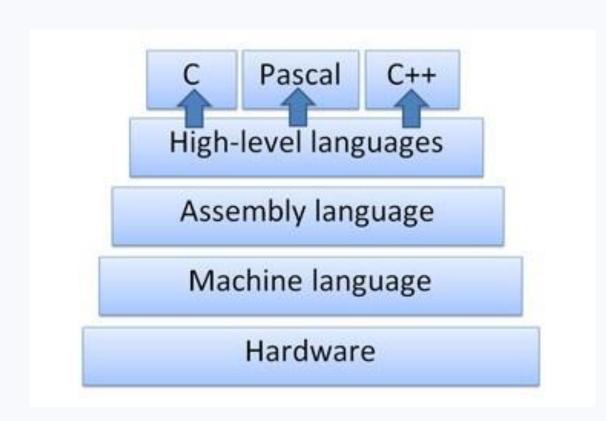


Hands-On Prerequisite Python in AI

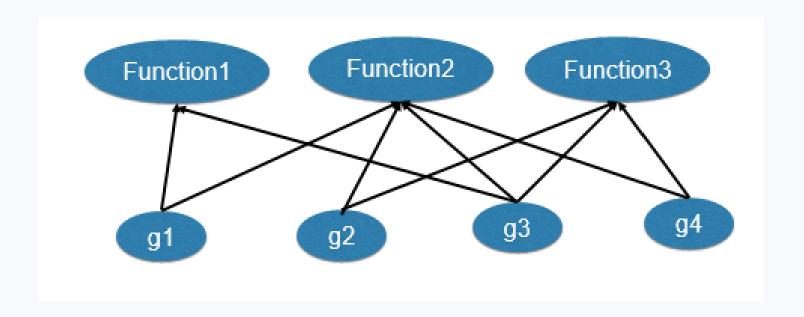
Object Oriented Programming (OOP)

Session 13

Introduction



Functional Programming



- Object-oriented programming is a programming method derived from real-world thinking.
- We have object and class.
- Every object has properties and behavior.

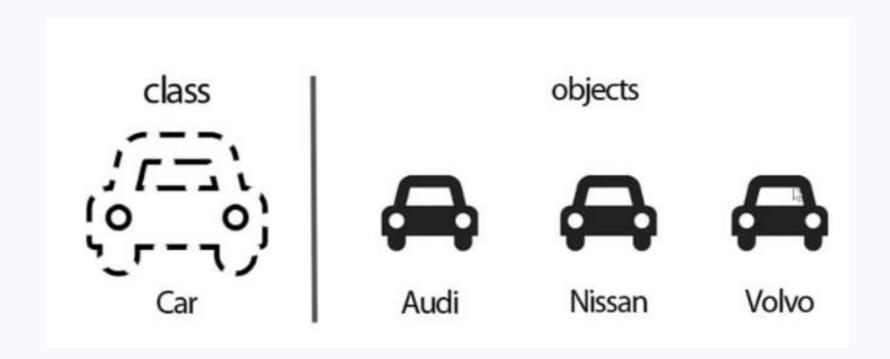
Example:

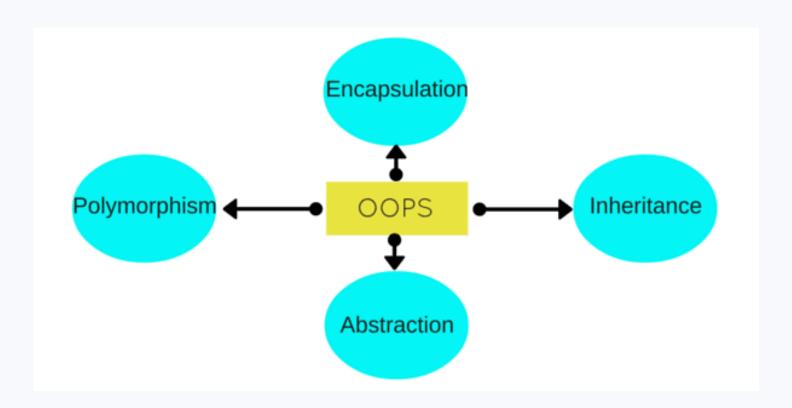
Objects in the library problem: a book, a member, a shelf and...
Objects in the bank problem: an employee, a customer, an account and...

- Object: Entities that exist in the problem space.
- Example:
- Bank: employee, customer, account, etc.
- Attribute: Features of an Object
- Behavior: Action and behavior that an Object can have
- Class: A group of objects that have similar characteristics and behavior.
- Each class defines behaviors and characteristics that an Object of this class has these characteristics and behaviors.
- Example:
- Attribute: name, surname, phone number, account type
- Behaviors: opening an account, transferring money to the account, deleting the account

- Advantages of Object Oriented :
 - Simplifying big issues
 - Easy development of applications
 - The ability to divide the program into smaller but independent programs
 - No need to write duplicate code and features that have already been implemented

Example





Thanks

Good Luck!