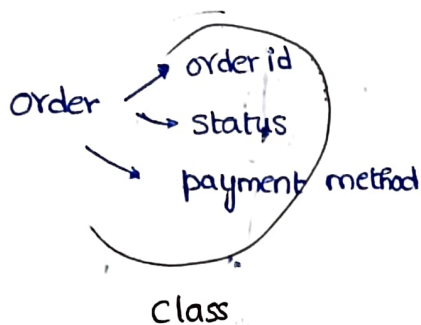


LLD Day 01 :

- Modular, Scalable, Extensible Code.
- Classes are blueprint. Objects are actual the instance of class.



Object
orderid : 1
Status : delivering
payment method : UPI

OOPs

- Way of Designing the Modular, Scalable, Extensible Code.
- (i) Polymorphism (ii) Inheritance
(iii) Encapsulation (iv) Abstraction

Encapsulation : [private - public - protected]

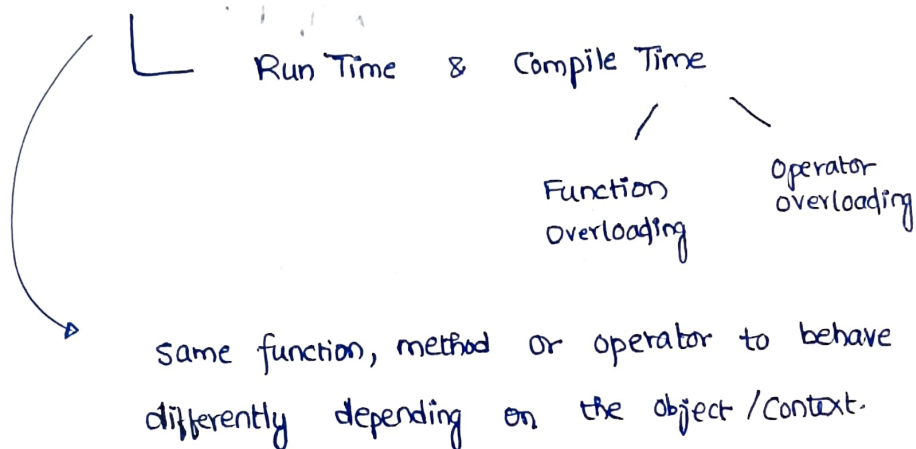
we will have access control here.

* It is a practise of bundling data (variables) and the methods (functions) that operate on that data into a single unit (class)

Abstraction: The process of hiding the implementation details of a system & showing only the essential features to the user.

Inheritance: It is the mechanism by which one class (called the child class/subclass) can acquire the properties & behaviors of another class (called the parent class/superclass)

Polymorphism: (many forms)



Q. Code Run Time & Compile Time Polymorphism.

Abstract Class
↳ abstract methods
(without implementation)
+
Concrete methods
(with implementation)

Interface
only contains
abstract methods and
constants.

video player

```
{  
  play video()  
}
```

phone vp
Laptop vp
Ipad vp

classes

Interface

video player

```
{  
  playvideo()  
  Register user()  
  _____  
  _____  
}
```

phone vp
Laptop vp
Ipad vp

Abstract Class

Register user() {} - common rules for all

- Extend Abstract Class
- Implement Interface

can't extend

final class : we can't make sub class of it.

final method : we can't override it.

final variable : we can't change the value.

P.T.O.]

SOLID Principals:

S : Single Responsibility Principle

O : Open/Closed Principle

one class only one responsibility.

open for extension, closed for modification.

(adds new features without changing existing code)

~~class Area Car~~

L : Liskov Substitution Principle

Objects of a superclass should be replaceable with objects of a subclass without breaking the program. (proper hierarchy)

I : Interface Segregation Principle

Better to create multiple small, specific interfaces rather than one big "fat" interface

D : Dependency Inversion Principle



Too have loose coupling, not tightly coupled code. High Level Module must not depend on LL Module

Q. Code For SOLID Principles