## Single Responsibility

### **Open-Closed Principle**

## Liskov's Substitution

## **Interface Segregation**

**Principle** 

### **Dependency Inversion Principle**

Each Java class must perform only one function.

**Principle** 

A class should stay closed to alteration, but it should be 100% interchangeable with possible to extend it.

**Principle** 

Derived classes must be their base classes.

A client should never be required to implement an interface that it does not use, or to rely on any method that it does not use.

Rather than real implementations (classes), we should rely on abstractions (interfaces and abstract classes)

### "Don't Repeat Yourself" Minimize redundancy in processes and logic.

## **Branch Naming**

<category> <name> Category:

wip: Works in progress; things that won't be finished soon feat: Feature addition or expansion

bug: Bug fix doc: Documentation

junk: Experimentation

### **Best Practices**

- Minimize pushes directly to main by creating feature branches.
- Avoid pushing user-specific cache files by making use of .gitignores.
- Delete branches after use.

Name:

Descriptive but short name for feature being developed or bug being fixed.

# **FIRST**

### **Fast**

Unit tests should be fast otherwise they will slow down your development/deployment time and will take longer time to pass or fail.

Isolated

false alarms.

depend on other test cases. No matter how carefully you design them, there will always be possibilities of

## Repeatable

Never ever write tests which A repeatable test is one that produces the same results each time you run it.

## Self-validating

Tests must be self-validating means - each test must be able to determine that the output is expected or not. It must determine it is failed or pass.

## **Timely**

Practically, You can write unit tests at any time. You can wait up to code is productionready or you're better off focusing on writing unit tests in a timely fashion.