[Principle of oops]

- s/w system should have max Cohession
- min Coupling

5k → Code, Testing, presales, Reception

→ Codder

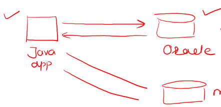
→ Tesh

→ B.A

→ Reception

[1 object → 1 Role → Cohession]

× Reusability ×



⇐ Coupling

flexibility ×

Decoupling → flexibility

[Java]

- [Developer]
  - standalone app
  - web applicatⁿ
- [Tester]
- [mobile computing]
  - Android
- [Big Data mgmt]
  - Hadoop
- [Cloud computing]
  - Java

[Java]

[Specification] – [API]
- set of instructions or guidlines

[Framework] → RAD
- Semi-completed applicatⁿ

1] JSE
- Java Standard Edition
- Core Java
- Standalone / desktopBased
- distributed app – LAN

2] JEE
- Java Enterprise Edition
- Advance Java
- web applicatⁿ
- Enterprise applicatⁿ – EJB

3] JME
- Java micro edition
- small devices with less memory consumption

1] Struts
- web app Dev

2] Spring
- web app
- Standalone app

3] Hibernate
- DB interactⁿ

→ [Full Stack Java Developer]

Front end
- Html
- Css
- Javascript
- Angular / React
- JQuery

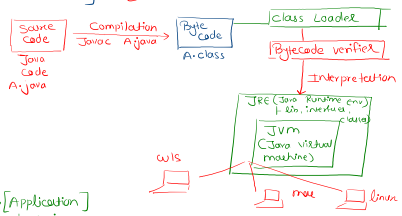
Backend
- JSE
- JEE
- spring
  - Spring Boot
  - Spring mvc

Database
- mongoDB
- JPA
  - Hibernate

Jdk - 8
Java development kit — prebuilt classes, lib, interfaces

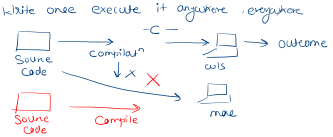
C:] Jdk
|- JRE

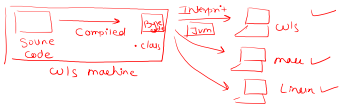
[JRE - Java Runtime Environment]



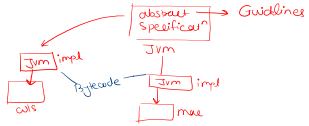
D:> [Application]
|- A.java
|- A.class

Write once execute it anywhere, everywhere





* [Since Jvm is Highly platform specific Java is platform independent]

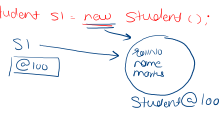


[Features of Java]

- Simple
- platform independant
- distributed
- Secure
- Robust
- Concurrent
- Interpreted

[what is the diff bet^ Jvm & JIT - ?]

Student s1 = new Student();



[Assignment]

1) In the Same Student class take 3 subjects marks
— write a method to calculateAverage()
— Display grade according to following Cond^
Avg below 50 → 'C' Grade
bet^ 50 to 80 → B Grade
80 + → A Grade

2) Write Date class
int dd, mm, yy — if date is correct then display()
— validateDate()
Day should not be grtr than 30, 31, 28, 29
month — " — 12
year — " — 2022