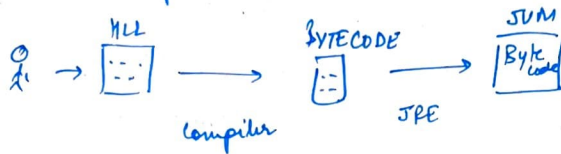


Byte Code :

byte-sized opcodes

only 256 possible opcodes
operands can be 8 or 16 bit.



Access Modifiers

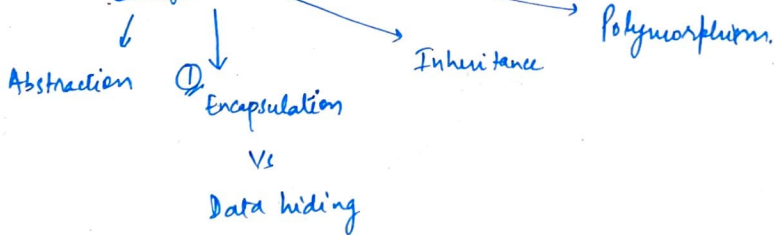
private: visible inside the current class.

public: visible everywhere in the project.

protected: visible in all classes of same package +
child class of different packages.

(default) package-private : visible inside current package.
non-explicit modifier

4 Pillars of OOPS



ENCAPSULATION : Wrapping up the implementation of data member
and methods inside class.

DATA HIDING : Protecting the members of the class from an illegal
or unauthorized access.

Ps: encapsulation is a sub-process in data hiding.

Encapsulation

class ← | → has attributes (properties) (public ↔ private)
→ has behaviour (functions) (protected etc.)

Polymorphism



Poly + morphism
(many) (forms)

compile time



compiler/JDK will only
resolve

which function to choose or
which behaviour to execute

runtime

JVM will resolve as its decided at the
runtime.

SIMILAR FUNCTIONS

X same name X
+

same type of args.

JAVA Does not support
similar functions

Ex Overloading

Ex. function overloading

• constructor Overloading

Ex Overriding

Inheritance Vs Abstraction



• Inheritance can have only abstract Methods
Java 8 + → default methods + static

• Support multiple inheritance

• Only static & final variables

• abstract and
non abstract

• does not multiple

• final, non-final,
static, non static.