Lis Birding data members and methods together inside a single class to achieve desired level of # Encap Suletion occur | security.

3 Acces specifiers / modifiers 3 private 3 defaut 3 profected 3 public

I) private: accessible l'usiell the some less.

■ We generally ky to make our member variables private:

making getters and setters give us giranular control over our variables.

3 dejanet: accessible ênside the some class + same collection of classes)

=)	freeted:	default +	child clas in a diff-package
		- (in the extent.

> pushic 3 any overe in the project.

Holymorphism], it is applicable on methods many forms

-3 Compiletime polymorphism (method over loading)
2 Run time " (method Ocealiding)

time [ferson p = new Person ();

rej variable

heap (dy nomic)

Stock
(Statio)

=) Compile Time poly morphism method, overloading

a class fes multiple func with some home

a class bes multiple funct with some name but diff. parameters namber/deta type? P Method overloading only works on parameters but
I not on return type: => Run time Poly morphism/ nethod Overliding Parent Pz new Child() Lacks weed Child c = new farent () & NOT allowed. P It's the Object which decides which method has to be called s methods are decided by offer variables are decided by sejerence.

If Abstraction
Is hiding the emplementation and only showing
the details.

Outline abstraction

s Abstract class] s partial abstractions
3 integace] 1000/0 dbstraction

Class extends class

Class implements interface

integace extends interface.

-) A child class has to implement all the methods of the integral.

If a class connot extend more than one class. (No multiple in heritage)

Dienorden Flages
plages
plages
v. plages

1 Totalor allow multiple in her fance

Ict

RCS

J. play 5/ 7) Integaces connot be (instantiated) object. of abstract about les abstract (no inpl)

es non-abstract (imple) 3 abstract closs common be Enstantialed. # mutilevel Trrevitore Class A I (Closs of sextends A)

(my)

(p 2() class C extends &)

class C extends 8)

 \mathcal{I}