Chapter 4 Notes Polymorphism Name Similarity leads to displicity of code. Student Employee Add a parent object V & Public Klass Perivalo extends Base Student Employee alogad god facilty Staff - Any child can overribe a perent wetled Ferson [] = & Stundent, Employee, faculty ? 1 type compatible Shape

Shape

Shape

Tent defines but

Where should area -abstract area (); the children must

Rectangle

- area () { };

Square Siee, siee

Square Siee, siee - aven () { }:
Square Sicesine - arealside Super (size, size) & Class implements Comparable
public int compare To (Object)

Chapter 4 Notes: Generics with objects Plas Object read ()
wite (object) e must down cast Java 5+ Autobox Autounbox write(new Integer) inta = real Object values Adaptar classes Adapter chasses are be used together class stronge Cell ysel as a way for 2 classes to Comperable - type safety is

Thinger String vrite { } delate { ? -if Creation of public class Generic Men < Type > type has estring? than every la Type is Type read()
return val void write (TAPAType X replaced with that Val = X Type val; Poble interface Compare CType? int compare TO (Type)

4: Generics pt. 2 total trea (xrray List & Shape >) - generics are not co-variant R square work work total Area (Array List & ? extends Shape > - still general using ? extends Base wilk card Public static CAmyType ? boolean Contains (AmyType []x, Amy typey) Public static ChynyType extends Congarable (? other Super AnyType?? - Prinitives can't be used - instance of only The Functor - which rectangle is larger - would be nice to have onore than one compareto Public interface Confarator < AnyType 7
int compare (AnyType Ihs, AnyType rhs) Public static chaptype ? Anytype

Roman All (Anytype on , Comparator <? extends Aytype >>

Super Clarg compwile implements compatite < Single Rectangle >

4: Generics Cont: Class Nesting Class Comp {
Private Static class Order By Wilth { - Lan be in main - lan be inline or anonymous Rynamic Dispatch - Makers one to Override Correctly! Base - No woltigk inher. Fack too (Base x) for (Per x) Per too (Basex) foo (Dirx)