

Generics

LLP Notes

Traffic Control

-> Internet Class Box

Int x

Int y

Class Box

Class Box

Int z

String s1 : Sparrow

String s2 : Eagle

String s3: Crow

String s : Sparrow

int x:10 cm

int y: 20 gm

Java generics provides us a way to create classes, methods and interfaces using type parameters.

T extends Number

Extends keyword means that T extends the upper bound in case you supply an object that extends Number class or implements Number Interface.

| integer. Double long

Number

Bounded genevics

> generic classes -> generic methods > wild card (7) represents an unknown type. -> law Types -> jeneric Interface. Bounded generics Void brist Tist (List <? 7 List) { Restrict type to lasses

Animal Box -> can hold any kind of Animals.

Upper Bound: class NumberBox (1) extends Number?

NumberBox (Integer? 7 T must be

NumberBox (Integer?] Thurt be NumberBox < Double)] S&b class Number or mey implement Number Box < user? Number

Office (House hotel)

baint All Buildings (list < Building > 1) of

List < Building > l = (work) List < House > eh = | >arnt All Building (); (not work) paint All Buildings (hist < ? extends Building) (

Mome work:

Lower Bound

(super)

? Super className

Type Evasure

Class Box<T7 (

T data

11(1)(1)

After combilation:

Class Box

Object data;

(I'nternally)