## Agenla:

- 1. Genoics
- 2. Raw Types
- 2. Static in Genanics
- 4. Inhentence in Generics.

Generics: [4P1", "P2", 10] List < > friends; ~ ["p2", "p3", 2] Class Friend ? X ["p4] P5, CLOSE" String namel; String name 2, - "LOSE" Integer relation; - "ENEMIES" " FKENEMES" List (Friend) friends, ["P5", "P6", "0.95" class Friend2 } String namel; String name 2, String relation; ["PG, "P7", forse] class Friend 3 { String namel; String name 2, boolean relation;

First Solution: Object Class - It's syper/parent class java. Object -> topmost porent class clacs Animal extends Object Animal this is aquatic mannal not written in code, taker place behird the Seenor. Animal a = new Pog(), Mammal m - new Dos(), Animal a = new Mammal(), = new Dog (). Object 0 Asimal () ~ Integer (), / String C) 1 Boolean().

reference can point to any object of child class. Class Friend & string namel; String name 2; Object relation, Friend f1 = new Friend ("Akarh", "Sam", 2).

Friend f2 = new friend ("Sam", "tejas") Friend f3 = new Friend ("sam", "Happy", f1).

GNO error, but make no sense. florelation, Object Y = Object 72 = f2, relation, sum = (Intger) nt + Integes (Integer) 82.

Object  $r^3 = f^3$ . relation, 1

Integer Sum2 = (Integer)  $r^3 + --$ ;

Runtime Exception

Class cast Exception

Problem of Object:
Friend finas Fried ("Pl", "P2", "CLOSE")

6. f. relation = n ms Arraylist (),

Generics.

allows us to A concept which with parameterised Create a class tueir attributes. data type of

Class Friend (T){

Friend (Integer)

Sivily voores new Frend() Sming namel, T pelation, E, V, T, S, any single digit appearage letter. [EV, VT, TS] Friend (Sring > F = new Friend ("Akan", "Tejas", "Close"). f. relation = 1 'X String r = f-relation: La no type castity required.

class triend (T) & student String name 1; 3 roll no String name), T relation; [123,241, "CLOSE"] ["Akash", "sam", "crose"] [123,12, true] Class Friend (T, V) { V student!;
V student 2,
T relation;

Intege Student String student String student Integer

String relation Integer

relation. 1) Friend { String, Integer) f= new ---. 2) friend of Integer, String ? Al = . - -

Break till 8:10

Raw Types: List (Intega) list = new Hash Map ( Integer, String ) map = Key name List ( Friend > list 2 = generic type. , not present 1 Hush Map = new Hash Map (), List\_list = new Array List (), G Backward Compatibility. Map (Object , Object) list ( Object)

Error prone

Static in Generics:
class Friend $\langle T \rangle$ ?  T relation;
void print Relation () 2
sout (relation),
3
Static void print New Relation () {
sout ( relation)
3
Static STY T get Relation (T var)
Friend Gethelation Chas Intega (1)) Friend (Integer) f = new
Friend (Integer) f= new
Chre n

class Friend (T/V) { V Stud; T relation, static (E) void print something ( E some var) } Sout (Somevar). Integer X = 10, Friend. print Something (2). Static (E) E return Some E Some Vor ) { return some vour,

Mammal oquatic Classer

L' V ave present

dog cat

fish. class 200 (T extends Mainnel) Z animal, Zoo (Animal) 2 = new 2000). 200 (Dog > 2. = nw 200(), l'is pavont 200 ( Mammal ) m = new 200 (). tome work?

- Inheritance in generics - extends

- 437 - wild card in generics.

- Subtyping