meak Polymorphisms Poly morphism (Method Ownloading 2 Method Owniding) Correpts: Will to Polymorphism 1) Compile Time Polymorphism many forms - Atatic Polymouphism > method Querloading achieve) -> mater -> solid, inquid, gas, squar. 2) Run time Paymayshism - Dynamie Polymorphikm -> sound -> banking., roas, men eta L) method ourriding Clars Test Method Ourloading Method Queviding () void show () 1) same rame 1) same name 1 90 p. (19) 2) different class 2) some days void shoul) 3) same asymements 3) Different orguerrant 1 S. 0.p("2"); - No . of arguement - No of arguements public both word main Sequence of argument Sequence of argument (String Mays) Typi of argument.

1) Inheritance 15-A

relationship.

- Type of argument

trest to new Test);

23 t. Mow ()

(31) can me achieve method overloading by changing the return type of method only? And) In java, method overloading is not possible by changing the votum type of the method only because of cronbiguity.

(82) Can we overload pos java main method?

And) Yes, we cent have any number of main methods.

In class by method overloading. This is because of My always calls train!) method which oreviews string away as arguments only.

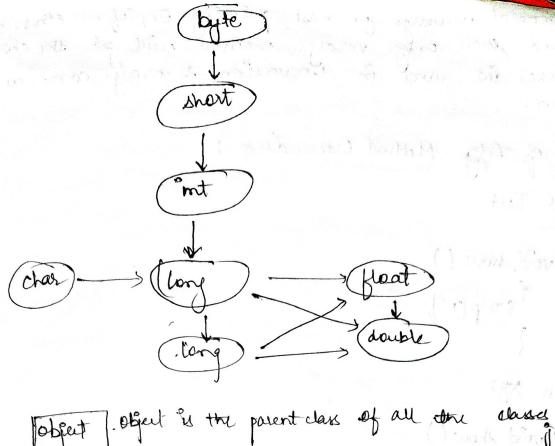
Example:

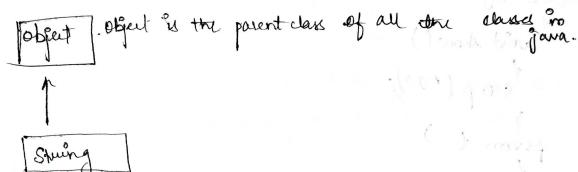
Class Test public static void main (String args []) System out puintln ("1");
Test to new Tost();
t. main(20);

public estatic void main (main (my a) System. out. puintin (*2").

Automatic Promotion :

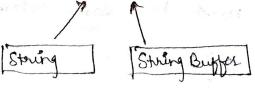
One type is promoted Proplicity to no matching database is found. Below is the diagram:





while visioling Duchoaded methods, compiler always guess precedence for the child type asphenest than compared to with parent type asphenent.

Object object is the parent dans of all the classes in joura.



Var-args
The various allows the method to accept zero or multiple organization. Before various sufficiency we we overloaded method. Or take on array one the months parameter but it was not considered good because it leads to the maintainance publish. If we don't know how orang arguments we will have to pass in the method, anys if the better approach

In general, various get least puicifity, i.e, if no other memory matched, then only various method will get the chance because int came is 1.0 western 2 variouse came in 1.5 version. Method Orewriding: Class Test () word show (s.o.p (9 "); clas xyz S.O.P (2"); psvm () Test to new fat(); t-show(); B) Do overriding method must have same eveture type for subtype! objut ! Sting StringBuffer StringBulder Nuraber Character Boolean Waid Byte Short Integer Long Floor bonke From Java 5.0 annands, it is possible to have different roburn type for a overriding method in child but child's iroturn type should be sub-type of is known as ocravient return type.

Case 2: [Overriding and Acaes Medifier)

The access modifier for an overriding method an allow more, but not less, access than the overridden method. For example, a publicle instance made public, but not prevate, in the subclass. Doing so, will generate compile - time overries.

Case 3: (Ouvriding l'Exception Handling):

Case 9: (Ouvriding & Abstract Method):

Abstract methods in an interface or abstract class dere meant so be overridden in derived in derived correspete danses otherwise compile time error will be thrown.

Case 5: (Invoking oueviddes method from Aub-dass)
whe can call parent class method is overriding
onethod using super keyword.

Case 6: Which method cannot oriente?

Proal methods can not be avenidden:

If we don't want a method to be overaiden, me declare et as fried.

Static methods can not be ouvriddin:

(method overriding /s Method tiding)

when you define a static rollhood with same rightere as a static rollhood with in base class, it is known as newhood hiding.

Private mettrods can not be overridden:

Private prettrods cannot be overridden as they are borded during compile time. Therefore we can't over overidary private methods in a subclass.

Case 7: Obereding and synchronized strippy modifies method the presence of synchronized strippy modifies with method have no effect on the sules of overriding, i.e. it's possible unat a synchronized strippy method can override a non-synchronized strippy one and wice-versa.