Relationships

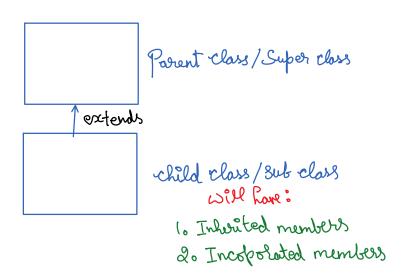
is-a relationship:- one class is using a properties and beh of another class with inheritance ex:-all the properties of emp class inherited to testing class

has a relationship: one class is using a properties and

has-a relationship:-one class is using a properties and behavior of another class without inheritance ex:-encapsulated class and driver class

Inheritance

Taking all the properties and behavior of super class to a sub class by using extends keyword is called as inheritance



super class:-class which is providing all the properties and behaviors to a child class

sub class:-class which is inheriting members from a super class

we are inheriting by using extends keyword

extends

syntax

class sub_class_name extends super_class_name

explanation :- all the properties and behavior of super class is inherited to sub class

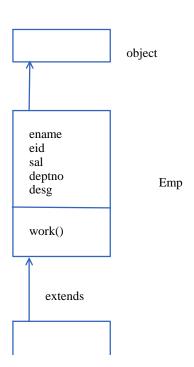
NOTE:-if class doesn't extends any class then by default compiler will extend Object class

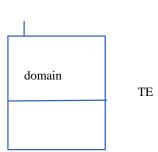
note

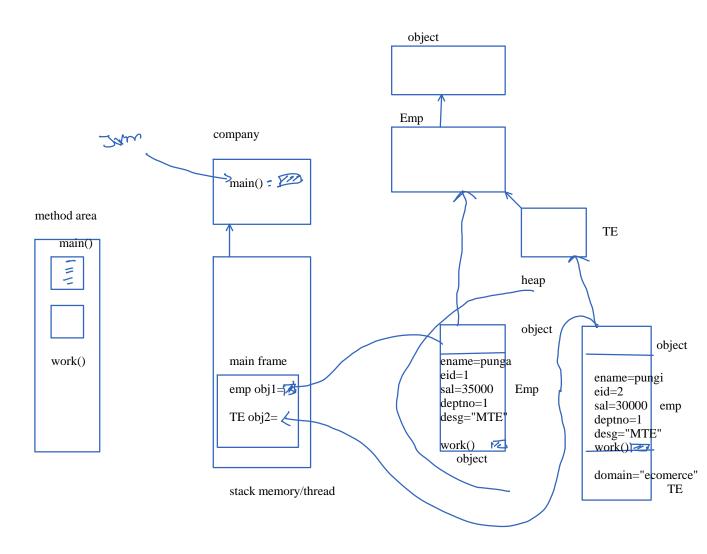
constructer calling statement this():-to call the constructer of same class super():-to call the constructor immediate parent class constructor

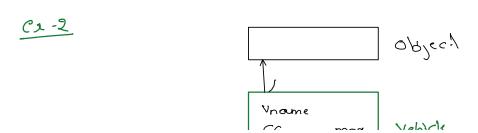
- 1)one constructor can contain either one this() or one super()
- 2)CCS should be declared at the beginning
- 3) when there is no CCS then by default compiler will add super()
- 4)to use super() extends is mandatory(to use super()-classes should follow is-a relationship)

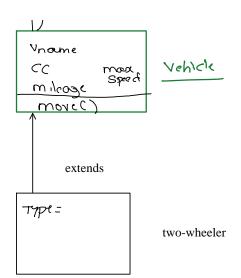
8 20

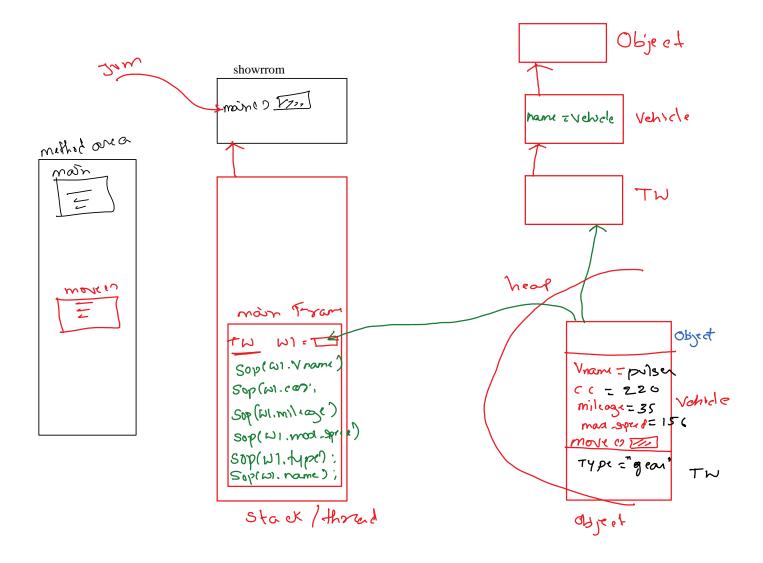










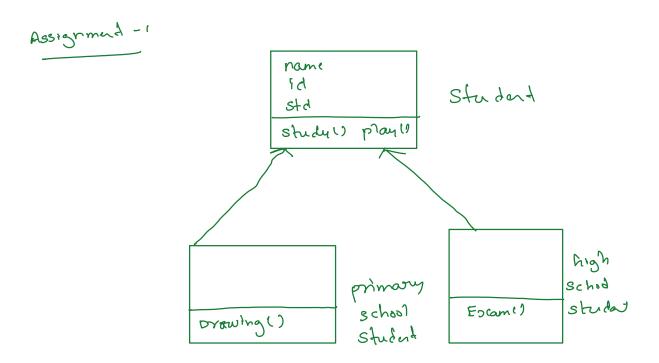


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is it possible to inherit static members? yes we can

extends keyword can inherit static and non static members

imp prove that static members also inheritable by using extends?

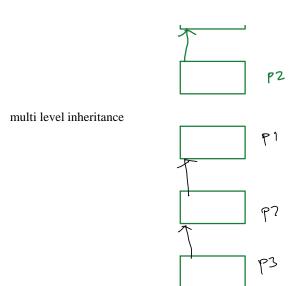


driver:- school

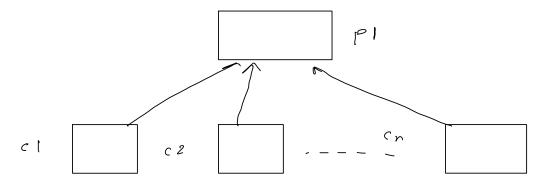
create an object for HSS and PSS

Type of inheritance by using extends keyword

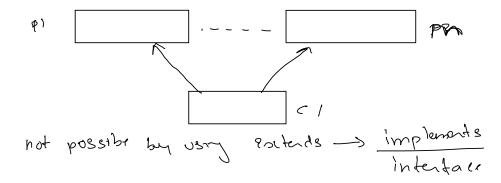
single level inheritance



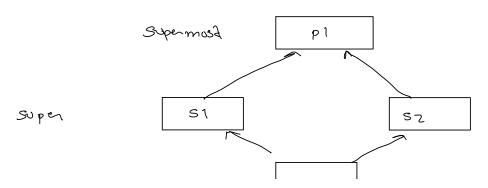
hierarchical inheritance

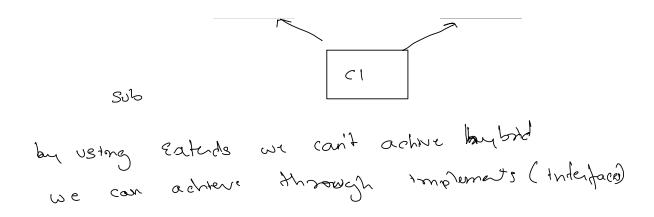


multiple inheritance

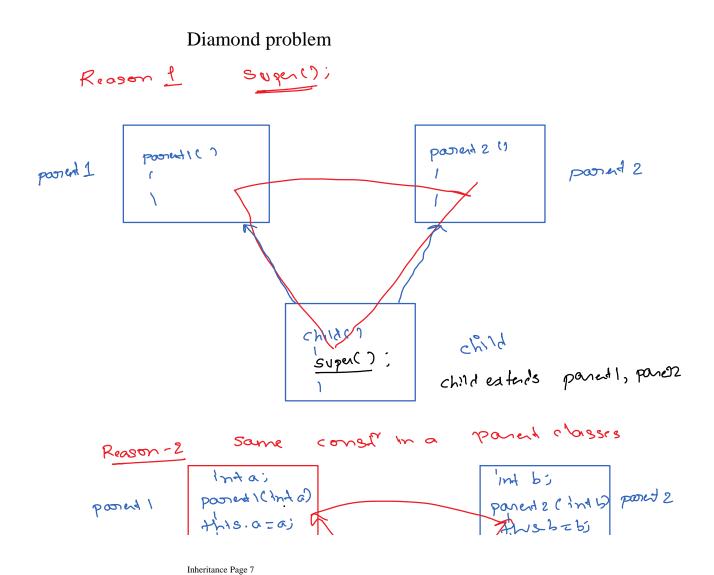


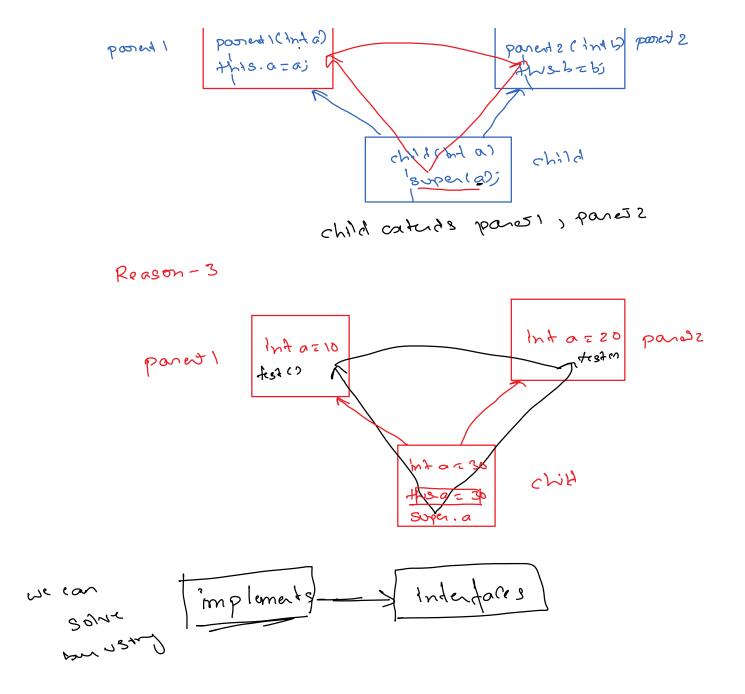
hybrid /derived inheritance





super keyword: it is used to access a members of super class we can't use super inside static context,





Diamond problem: - it is a major problem accurse when we try to inherit more than one parent/super classes

problem-1 if both parent class contains default constructor and if sub class calling parent class constructor with super() then it will get confused whether to call which parent class

problem-2 if both parent/super class contains a parameterized constructor with a same type of Formal Arg and from a sub class if you try to call a parent class constructor by using super() with a same actual arg -->again it will get confused whether to call which parent class

problem-3 if both a parent class contains a members

(var/method) with a same name then from a sub class if we try to call a parent class member by using super (super.member_name) then again it will get confused whether to call which parent class

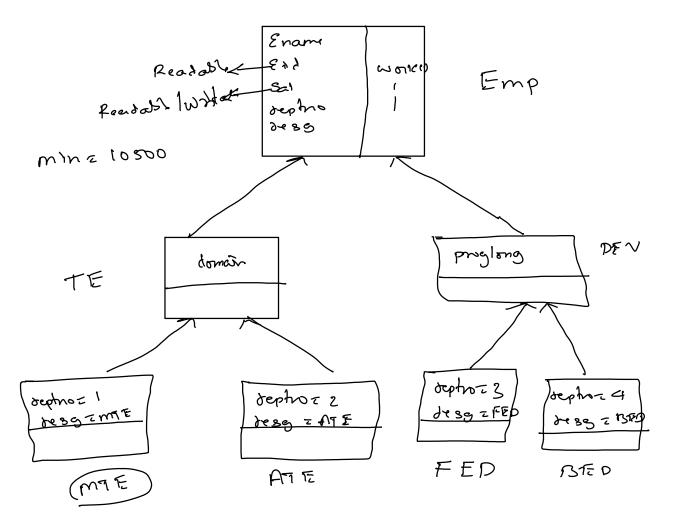
- 1) what is inheritance?
 flow defn
 explain extends keyword
 explain types
- 2) what is diamond problem

reasoon-1

reason-2

reason-3

- 3) difference between this() and super()
- 4) difference between this and super



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