Inheritance: It is a mechanism where one object acquires tentures [properties inefields of behaviour ine methods] of the parent object Types of Inheritance: d Single (2, multilevel 3, Hierer Clical Paribilities المورد ك ما Mass level Single B clar A 2 day A & Clar A & Clase 13 eintends A 2 Class B extends A & Class B entends A 9 5 Class C extends A & Class (entends B & 3 Clau A L 3 Not Parible Chas D cutinds A & Hydrid multiple Class C extends A { CLEW D entereds B, (& Clars C entends A, B & Clas AE class DE 3 × 3:

```
Cyclic
```



CROS D enterts A S

Rules of Inheritance:

(1) We have to use entends keywords to inhert The properties of behaviour

from Super class [posent] to Subclass [child class]

(2) private membys do not postflipate in heistance

class A{ \neq private int x = 10; / 1 計 と = 10 private void add() {

(3, In case of constructors, those one not allowed to participate in havitance

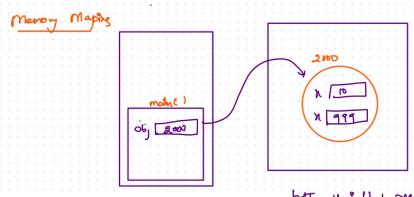
not allowed for classes in Java Muttiple Inheritance is

Cyclic Inheritance is not allowed in Java

class B extends A{ int y = 20;

con have voicely [instance voicebles] of the same name in sugar class as well as Subclass , if we create a object for that subclass then memory will) be allocated for both the vosiables within the object

Clav # \mathcal{E} clav \mathcal{B} entends # \mathcal{E} clav \mathcal{M}_{odd} , \mathcal{E} int $\mathbf{n} = \mathbf{to}$ int $\mathbf{n} = \mathbf{qqq}$; $\mathbf{p} = \mathbf{red} \cdot \mathbf{n} \cdot \mathbf{r} \cdot \mathbf{r}$ $\mathbf{g} = \mathbf{red} \cdot \mathbf{r} \cdot \mathbf{r}$



both variables one present

To access the cross-able present in the Super class , we have to make use of "super bleyword of to access the vorietle present in Jubolass we can make use of this keyword

(2) Constanctor do not posticipate in heritance, but The powent Class constructor Can be called from the Child class constanctor with the help of super ()

day Posent &

Parent () 2

5.0 P ("powent Constructor");

3

day child entends Porent &

Obid () &

Super()

2 S.O.P ("Clild Constructor")

1

(3) It there is no constructes in child i't will automatically call I'm default constructor [which is a doubt by compiler] and default super () call is made to parents because it entends powert class

class Parent{

```
Parent(){

System.out.println("Parent constructor called..");
}

class Child extends Parent{

Child L

Supplied

}
```