## Inhoutance.

Inheritanu in java is a mechanism in appearant object accountes all the which one object accountes all the properites and behaviour of a parent object properites and one of the dey features of the dey features of the object oriented program.

Types of Inheritanu.

Single Pnheritanu

Mutti-Level Pnheritanu

Hierarchual inheritanu

Hybrid enheritanu

Hybrid inheritanu

Muttiple inheritanu.

Birgle Enheutance.

\$ Pn single enheutance, a sub-class is derived

brom only one super class.

The properties and behavior

=> It inheuts the properites and behavious
of a single - parents class sometimes It is
also known as Simple inheritance.

inhents sub class

Ex:Executive Java

class Employee

{
float salary = 34534 \* 12;

g

public class Executive extends employee

float bonus = 3000 \* 6;

Public static void main [string args [])

Executive Obj = new executive (); system. but. Println ("Total salary credited"; + obj salary). System. out. Printly ("Bonus of six months;"+ OBJ bonus). Total solary credited: 4144000 Maltikerel unheutance. De six month: 1800.0 of In Mutti level inheritance a class is deine Grom another class is carred multicevel enheitanu. => In simple words wie can say that class that has more than one pasent Class is called the multi-level inheritance. super class derived class.

M super class class student

```
get no (int no)
   void get no (int no)
  void put no ()
    system. Dut. printle ("registration number:"+
 Untermediate subclass
  class marks extends student
  World get marks (float m)
  void put marks ()
 system. out - Printly
of derived class
 class sports extends Marks
 float score;
 void getscore Cfloat Scr)
 SLONE = Scr
gystem - out printin ("Score"= + Score);
void put Score ()
```

Pude slater void main [string argies) 2 sports ob = new sport - s(); Ob. get No (0987); Ob. put NO (); Ob. get marks (78): Ob. put marks (); 0b. get score (60.7); Output registration no: 00, Ob. put Score (); Masks: 78.0 Score: 68.0 estenden Hierarchical inheritance. If a number of class one derived from a Birgle base class it is called hierarchical inheritance. -> Super class (student/ -Teommere Arts -> subclass Science / Hybrid Inheritanie. Hybrid unherstance of more than one hybrid inheritance is the combination of two or more types of inheritance. Brand father single inheritance -> Hierarchical unheritance Bather | -> try brid in herclanu Daughter Son Java cloes not support Multiple inheritance Multiple Inheritance. due to ambiguity.