what is shortance and Describe the types of
Inheritances.
Inheritance.
The method to Greate a hierarchy between classes
by Inherting from other classes.
by Inherting from other classes. There are 5 lybes of Inheritance:
They are: 1) Single Inheritance
2) multi level Inheritance
3) multiple Inheritance
4) Hierachial Inhorderce
5) Hybrid Inheritance
In this multiple Inheritance does not supports in Java to overcome
we use Interface.
1) Single Inheritance. In this we have one Parent class and
child class. Both are Interlinked and child
class is accessed by the Parent class.
Jass A -> Parent class
class B) - dild class
Program.
ClassA ?
Public Void dis -a ().
System. out. Println ("Base Class is Derived");

Q.

A.

Class B entends A ? Public Void dis-b()} System out Printly ("child class is Greated"); Class Main ! Public Static Void main (String axgs (1)) b. do = ncw b(). obj ·dis-a (). obj dis-b (). out Put: Base class is Dorived child class is created multilevel Inheritance. In this we have Grand Parent Parent and child class where child class becomes Grand child for the Grand Parent Class Class A) - Grand Parent (class B) - Poxent Class c) - Grand child/child

```
Program
  Class A}
         Public Void disi()}
        System out Printly ("Hi"):
 Closs B Enlands A }
       Public Void disz () }
       System out Printly ("Hello").
 class ( Elonds B }
        Public Void disa ()}
        Systom out Printly ("world"):
class Main }
      Public Static Void main (String args []) {
             (0 = now ():
             o.dis();
             0. disz().
             0.dis 3():
         world.
```

3) Hierachal Inherlance. In this Intervance single Born dass have many child classes as fellows Parent A Program (Lass A) Public void dis () & System out Printh ("Paront class derived"). class B Enlands A } Public Void dis20} System. out Printly ("child is derived"); class c Entends A } System out Println ("child 2 is doired"). class Main Public Static Void main (String axgs []) } (02 = now (().

or disi(). 01. disz (). 02 dis 3 (). output. Paxent class derived Child is derived Child 2 is derived Hybrid Inheritance. In this Inheritance is done when Combination of 2 Inhordances as follows. Class A Class B Class D Program Class a) Public void dis ()} System out Printly ("Hi"). class b Entends a f Public void disz() } System out Printly ("Hello").

class c Entends B ¿ Public Void disa()} System. out Pointly ("Hi!"); Class d Entends B & Public void dis 4 () } System. out Printly ("King"). Class Main } Public Static void main (String age (3) { Cobic - new(1): dobj d = newd(.). obj c.dis (): obj c. dise(); Obj c · dis 3(). outPut = Hi obj d. dis 1(). Hello obj d . dis 2 (). Objd.dis 3 (). Hello King Multiple Inhoritance. In this Inheritance 2 Parent class Combines and forms an single child class where in Java It is not Possible for over Coming we use Interface.

Class B) Classic Class A } int a. a=5. Void disi() } System out Printly (a). Interface B } int b = 10; void dis 2 () } System out Printly (b). Class C Extends A implements B} int C : 15 . void dis 3 ()} System · out · Println (c); Public class main }

Rublic Static roid main (String agos)) { e doj+new (). ob; dis. (); du dis2 (); dy dis3(). class main } Public Static Void main (String args []) system out Println ("there is no Error"). Catch (Enception e) & System out Printly (c.gc/ Mcssages); finally System. aut. Printly ("This is finally Block"); tustus / by 2010

This is the finally Block.