Assignment - (2) Java 192365011 what is in heritance and describe the types of inheritan 0 Inheritances The method to create an hierarely blw closes by inheriting from other classes There are 5 types of inheritance 1 Single inhevitance 2-Multi inheritance 3. Multiple inheritance 4. Hierachial inheritance 5. Hybrid inheritance in this multiple inheritance doesnot support Java to Overcome we me interface. Single Inheritance: ClassAS int'a; void display A() & system out, print(n ("a="+a); class B extands A & int b; void display B() } system.out.println('b="+b); public class single inheritance Example? public static void main (string (large))

A' Harshor Vandhan

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Bobs = newB();
                                  Output:
          aby a = 20;
                                 a=20;b=30
          Obj b = 30;
          Obj: display All;
          obj: display B();
Multilevel inheritance
class A
       public void display A() }
           system.out.println ("Incide display A"); }
          clan B. extende A &
              public void display B() {
          system.out. println ("Inside display B");
         public class main ?
              public static void main (String [ Jargs) {
                     cobj=new(();
                                             Ostput:
                       obj : dusplay A();
                                             This animal eats
                       Obj: display B();
                       Obi: display (();
                                              The dog banks
                                             This animal eats Food
                                              The cat meows
Multiple Inheritance
          class A S
            void method A() }
               System. Out Printin ("method From class A");
               Interface B&
```

```
Void method B();
        Interface i {
        void method (();
       class B extends A implement B, C &
              public void method B() 5
       system out println ('Method from interface. B');
      public void method () {
        system out println ("Method From interface (");
       public class multiple inheritance trample ?
               public static void main (string [ Jangs) 5
                   DObj = new D();
output:
Method from class A Obj: method. A();
Method from Interface obj: Method B();
  Band C Obj: Method ( ();
Hybrid inheritance:
class Grand Father &
       public void display show Gill?
    system out-println ("He is grand-father");
   class Father extends Grand father &
          public Void show F() ?
    System out printin ("He is father");
     Class Son extends father &
           publicivoid shows SC) &
```

```
Systemout println ("He is son");
    public static void main (string args[]) >
           Son obj = new son();
              Obj = shows ();
               Obj · show F();
               Obj-show Gill;
               Daughter. Obj &= new Daughter ();
Exception Hardling:
   Exception is an error that occurs during the exception
 of program key components of Exception handling.
 1. Try block: This is where you write the code that might
  throw an exception if an exception occurs the executi
 2 catch block : this is block contains code that is executed
  Block of code to be executed it an error occurrinty.
 & Finally block - Their block contains code that is executed
  regardless of whether an exception was thrown or not
 4. throw statement - This is used to explicitly thrown an
 exception from a method or block of code
```