Assignment = 2

1 Overloding

is Binding of overbaded method call to its detinition happens at Compile time

ii. Stack, final method Can be overloaded

Ex:- Class Dogs

Public void bank () {

sys tem.out.point/n"

woof"}. 4

// Grenloding method.

Public void bark (inthum) {

For (inti=0; i = num; it+1)

System.o. P ("woof");

3

Overriding

J. Binding of overwiden method call to its definition happen at run firme

(iii) It is declased a some static method in child the same methodo class in static inp mate final child cannot overlided the privade final methods of their bases class methods of their bases class for g ?

Public void bank() {

system.o.p ("woof"); }

class Hound extends dogs

Public void snt() {

\$.0. P/n ("sinff")]3

Public void bark() 2 {

\$.0. P/a ("bow") / 3 }

class test {

Publicstatic void maix

son Carss){

Dog.dog=new Hounds,

dog.backs; 4

3

```
classa f
2)
     Public void show () {
          System. out. point/n l"int n) : 3
        class B {
          Public void Show () {
               system.out.point/n ("intB"); 3
            Public void Showelf

System.out. Point/n("int c");
           class c f
         Public roid Contig () {
                system.out point /n ("config"); 3
            Public void config() f
                   system. out . point In ("config"); }
            Public clas Demo [
                Public & tatic roid main (stoing [Jargs) s
               Ajobj 1= new B()',
                  obj 1 = &how();
                    A.bo) 2 = ncw1();
                       obje = con fig ();
                      obji=newic);
                     Oobji. Show (); q
                        3
```

1):- Because obj we linking in runtime, this will work on Show only on vontime so obj, gives on that output

quantime polymonphism.

3 Abstract methods and Classes:-

An abstract class is a class that is declassed abstract method Abstract abstract method Abstract class cannot be in & fan tia ted, but they can be subclassed.

-> An abstract method is amothed that is declared without an implementation without braces and the followed by a semicolon like this:-

abstract void more double deltar, double deltax)

if a class includes abstract methods, then the class itself must be declared abstract, adin Public abstract class Graphic object [

// de clare fields // declare non abstract methods abstract void draw (); In abstract class is subclassed, the subclass ed, the subclass usually provides implementation for all if the abstract methods in its parent class However it does not then the the subclass must also be declared atteast.

- You can intialize a ifinal variable when it is declared. this approach is the most common, A find declared. this approach is the most common, A find variables, if it is variable is called blank tinal variables, if it is not in tialized while declaration, Below on the two ways. to intitize a blank final variable.
- A blank final variable can be initialized constructor constructor. If you have more than one constructor it your class then it more than it most be intialized in all of them, other wise compiler time will be thrown.
- Ablankfinal static Vavuable can be intialized inside static block.