Abstract class

abstract class

class Test

p.s.v. main()

Super SI;

X sI=new Super();

Sub sz=new Sub();

```
abstract class Super
      (Super()); 5.0.p("Super");
     void methi()
      5.0 p (" super Methi");
   abstract void meth2();
class Sub extends Super
   void metha()
      S.O.p ("Sub Meth2");
```

- --> There are two types of classes: Abstract class and Concrete class.
- --> "Abstraction" is a process of hiding the implementation or way of managing complexity by hiding unnecessary details and showing only functionality to the user.
- --> If "abstract" keyword is used before the class then it is an abstract class but if nothing is written before class then it is a concrete class.
- --> Object of an Abstract class cannot be created but object of concrete class can be created.
- --> Reference of abstract class is allowed.
- --> "Method" which is not having a body is known as Abstract method, the method must be declared as abstract. Mtlb hma "method" ka andar kuch bhi nahi likhna hai.
- --> A class is "abstract class" if at least one of the methods is abstract.
- --> If any "sub-class" inherits abstract class then that "sub-class" also becomes "abstract class"; lekin aagar ham "sub-class" ko "concrete class" mai change karna chahta hai to hma "undefined method of super-class" ko override karna hoga

Abstract class

Do and Dont

1. abstract class Test =

Test t; X tonew Test();

2. Xabstract final class Test

3. x abstract static class Test

4. abstract class Test

× final abstract void display();

abstract class Test!

abstract void display();

class Test2 externols Test!

You'd display()

- void display()

- --> An Abstract class cannot be final because if it is made final then it cannot be extended whereas abstract class is meant for inheritance.
- --> An Abstract method cannot be final because if it made final then it cannot be overridden whereas Abstract method is meant for overriding.
- --> Abstract Class and method can neither be final nor static.
- --> A Sub class must override an abstract method or else it will become abstract class.