Abstract class

Vabstract Method abstract class

```
p.s.v.main()

Super SI;

XSI=new Super();

Sub sz=new Sub();
```

```
abstract class Super
      Super();
      void methi()

5.0.p('super methi");
    abstract void meth2();
class Sub extends Super
     void meth2()
s.o.p ("sub meth2");
```

- --> There are two types of classes Abstract class and Concrete class.
- --> If abstract keyword is used before the class then it is an Abstract Class if nothing is written before class then it is a 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.
- 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 extends 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.