An interface is a collection of abstract methods which are public in scope.

It is a collection of methods, which are public and abstract by default.

Abstract method: -

It is a method with no body (or) implemenation, ie there is no code at all associated with method.

Ly The best part of an interstace is that a class can inherit any number of interfaces, thus allowing multiple inheritance in Java.

1) Java does not support multiple inheritance among classes, but interfaces allow java to support This feature!

-> Interfaces are declared with help of Keyword "Interface". Note: - In interface, None of methods have body.

interface interfacename returnique methodname (arguments);

* (In simple words, Interface list a blueprint of class, it has static constants and abstract methods is side vi allowed to make

* The interface in Java is a mechanism,

Ly to achieve abstraction my line.

L> to achieve multiple inheritance

Note: It is mandatory to add the access specifier public to the method declaration, otherwise the compiler will not compile the program (The older version of Java, i.e before Java 8).

* In Java, a class extends another class, an interface extends another interface but a class implements an interface. interface interface class implements extends enlends interface class class Example: Calculator java interface calinterface int add (int a, int b); int sub (int a, int b); class Calculator implements Calinterface public int add (int a, int b) I went in them he water mit white return a+b; public int sub (int a, int b) return a-b. hands hand allow whends public static void main (String args (1) Calculator cal = new Calculator (); System.out. printly ("value after addition = "+ cal. add (5,2)); System. out. printly ("value after Substraction = "+ cal. Sub(5,2)); output:- javac Calculator.java java calculator , tra of protession is the colour Mano In value rafter addition = 7 . (revolue after Substration = 3

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* Extending interfaces: - cor) Inheritance in interfaces

Just like interitance in classes, the interfaces can also be
extended. An interface can inherit another interface using the
same Keywood "entends".
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same Keyward "entends".
Example:-
                                  Inher Demoilava
   interface
                A
       void showA();
      interface B entends A
       void showB();
      class Inherpeno implements B
                                       Cotton Liev
      public void shaw AC)
       System.out. println (" Method of interface A");
                         grand more of small whole dy Harry and
      public void showB()
       System out printly ("Method of interface B");
                                     ' I dling too, m. h.
     public static void main (String args[])
       InherDemo d= new InherDemol);
                             S' mostily Inthing two my
       d. show A();
       d. show BO; (evigro good) mines how like rilling
             javac Thherbemo.java
             java InherDemo
             method of interface A
             method of interface B
                       THE TO HE MATERIAL SECTION
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* Multiple inheritance in Java by interface: If a class implements multiple interfaces (or) an interface extends multiple interfaces is known as multiple inheritance. interface interface interface inter-face entends , implements interface class Multiple Inhertance Demo. Jove Example:interface printable void printer; I it molgani an its dat sale interface Showable void show ();

if

class Multiple Inheritance Demo implements printable, Showable public void printed water to bottom) alling has maken System.out. println ("Hai"); public void show() law drinks was b mar franks System.out. println (' hlelcome"); public static void main (string args(1) Multiple Inheritance Demo Osi = New Multiple Inheritance Demo(); obj. print(2) product in the confi obj. show (); output: - javac Multiple Inheritance Demo jova jara MultipleInheintance Hai welcome.