26/3/2024

Interface

- => Tust like classes
- => One interface multiple implementation.
- => For using multiple inheritance in java.

modifiers others

modifiers return-type method names (arg list);

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- Access modifiers with there => - Public 7 Just like top-level

[Top-Level] - Default Class

- Other modifiers => - abstract

\[ \sigma - \text{By default all the interfaces are abstract.} \]

## Methods of Interfaces =>

- => By default all the methods of interface are public of abstract.
- ⇒ from JDK-8 onwards you can provide implementation of methods in interface as default implementation.
- => from JBK-8 onwards we can define Static methods in interfaces.
- => Frome JDK-9, we can have private methods in enterfaces.

## Data members of Interfaces -

- By default, all data members of Interface are public, d'attic & final.
- =) Data members must be initialised at the time of decleration

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## Other Points

- => A class which inherits interface, have to use Implements' keyword.
- An interface can inherit another interface by using extends kywords
- > A. class can inherit more than one printerface at a time.
- => You cannot create object of an interface but you can declare reference of type of that interface.

\_\_ interjace My Int {

Class A implements My Int &

as both methods Spublic Void m1 () { in interface m1, m2 50P ("MI of A"); are public we have to make mese Overridden metro de SOT (" HZ of A"); Public as well.

enterjace My Int { void mall; This class must be A emplements My Int 6 & K abstract as we have so ( not defined m20.) Public Void mi () = void m3 U{

Class B extends A { Public void m2() {

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1 2 2 March S. E. March March

28/3/2024 Class A implements II, I? { interface II-{ Public void m1(){ Void m1 () 1; Public Void ma(){ Pinterface I2 { void ma (); void mascos class A implements I2{ interface III Public Void m1 () { void mIUl; Public Void m2 1) { interface I2 extends III void m 2 (); Class A & implement I3 1 interface III Class A implements I3, I1/ void m1(); Class A implements I3, I2 intry oce I29 void me (); wells need to implement all twee same methods interjace I3 extends II, I2 { in class A.

void ms ();

Interface III Word m1(); void mals; enterface III Void milly. Void ma() interface II1 void mics; void mals; interface I25 void m (L); "void m 2 (intoi); interface III { Void mil); Class A implements III P& Dungs ) 5 SOPC "Mig A"):

class A implements II, IZE

P.V. mILIF

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P.V. mILIF

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Three methodos needed to be implemented in class.

mi

ma

molimiti)

i. w 2 ();

Interface III (

Void mil);

P.V. mil() {

Sof ("ni of B");

lass A implements III {

Pownil() {

Class C {

Sof ("Mi of A");

Pownil() {

I i = hew h ();

I mil();

i = new B ();

```
Same code as Previous example?
       Class C {
            Psvmain(){
                II i = new A ();
                 BA 92:
                92 = L; X
                                               a great and a
                 92=(A)i;
                                               The second second
                               Class B of
 Interface
      void m((),
                                   PSVMC_ DE
                                    II i = new A L);
Class A implement III
                                      i.m163;
    Prmicof
Sop("Mig A");
                                      i. m2 (); // cerror
                                        Cas M2 is not
declared in
    Voidme()5
     SOP ("M2 of A");
                                         PS VM C) {
interface III
              int a1=1;
              Void m1 ();
 Class A implements II {
```

```
Class A implements II, IZ/
         Interface III
                                        PVm1C154
            int a= 1',
            Void m(();
                                        PSVM(-)f
                                           sopla); X //crear
          nterface I2 {
                                          SOP (b);
             int b=2;
                                      SOP (IZ. a);
              of following
      which one, is true about interfaces: ->
       1 All the methods of interfaces are abstract.
      @ All the methods of interfoces are static
     3) All the methods of interfaces are firel.
   By All the methods of interfaces of public by default.
() => Which of the following is state about interfaces:
    To implementation of method can be provided by in interface
      1 All the methods of an interface are their abstract by default
    (5) All the data members of an interface are public, static of final
```

Bu we cannot create an object of interface.