Java Concept 33

- Nested Interface can be public
- Nested Interface can not be private , protected , default
- Because interface members can only be public , not mentioning any access specifier means public

```
1  //Error
2  interface  python
3  {
4     private interface ruby
5     {...}
8  }
```

```
1  //No Error
2  interface  python
3  {
4     public interface ruby
5     {...}
8  }
```

```
1   //public nested interface //No Error
2   //if no access specifer for interface members
3   //means they are public
4   public class JavaConcept
5   {
6       interface Java
7       {
8          public int program();
9          interface Nested_Interface_public
10         {
11             public void inside();
12         }
13      }
14     public static void main(String args[])
15       {
16
17       }
18  }
```
run:
BUILD SUCCESSFUL (total time: 0 seconds)

```
1   //public nested interface //No Error
2   public class JavaConcept
3   {
4        interface Java
5        {
6         public interface Nested_Interface_public
7            {
8                public void inside();
9            }
10       }
11      public static void main(String args[])
12        {
13
14        }
15  }
```

run:
BUILD SUCCESSFUL (total time: 0 seconds)

```
1    //protected nested interface //Compile Error
2    public class JavaConcept
3    {
4         protected interface Java
5         {
6             protected interface Nested_Interface_protected
7             {
8                 void inside();
9             }
10        }
11       public static void main(String args[])
12         {
13
14         }
15   }
```

Error- illegal combination of modifiers: public and protected
protected interface Nested_Interface_protected

```
1    //private nested interface //Gives Error
2    public class JavaConcept
3    {
4         interface Java
5         {
6             private interface Nested_Interface_private
7             {
8                 public void inside();
9             }
10        }
11       public static void main(String args[])
12         {
13
14         }
15   }
```

Error-illegal combination of modifiers: public and private
private interface Nested_Interface_private