1 Inner class in java

Inner class means one class which is a member of another class. There are basically four types of inner classes in java.

- 1. Nested Inner class
- 2. Method Local inner classes
- 3. Anonymous inner classes
- 4. Static nested classes

1.1 Nornal Inner class

Regular Inner class or Nested Inner class can access any private instance variable of outer class. Like any other instance variable, we can have access modifier private, protected, public and default modifier. Like class, interface can also be nested and can have access specifiers.

```
1 class Outer1
2 {
3
       class Inner
4
5
           public void m1()
6
           {
               System.out.println("Inner class m1 method")
7
8
9
       }
10
       public static void main(String[] args)
11
           //1way
12
           Outer1 out=new Outer1();
13
           Outer1.Inner in1=out.new Inner();
           in1.m1();
14
15
           //way2
16
           //Outer1.Inner in1=new Outer1().new Inner();
17
           //in1.m1();
18
       }
19 }
```

Outer1.java

```
1 class Outer1
2 {
3
       class Inner
4
           public void m1()
5
6
               System.out.println("Inner class m1 method")
7
8
           }
9
10
       public static void main (String [] args)
11
           //1way
           Outer1 out=new Outer1();
12
13
           Outer1.Inner in1=out.new Inner();
```

```
2
```

Outer 1. java

modifier 'static' is only allowed in co 3 errors