

Inner Classes

- ❑ Inner classes are classes defined inside other classes.
- ❑ Inner classes have access to all the members of the outer classes.
- ❑ Usually we use inner classes as helper classes of adapter classes.
- ❑ Inner classes can be anonymous (without names)

Syntax

```
class MyOuter  
{  
  class MyInner { }  
}
```


Example

```
public class valan{  
    class inner {  
        void display()  
        {  
            System.out.println("Inner Class demo");  
        }  
    }  
    void call()  
    {  
        inner in=new inner();  
        in.display();  
    }  
    public static void main(String args[]) {  
        valan obj=new valan();  
        obj.call();  
    }  
}
```

Inner Class demo

Static Inner Class

```
public class valan
{
    static class inner
    {
        void display()
        {
            System.out.println("Static Inner Class demo");
        }
    }

    public static void main(String args[])
    {
        valan.inner obj=new valan.inner();
        obj.display();
    }
}
```

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Static Inner Class
demo

Method-Local Inner Classes

```
public class valan{  
    void display()  
    {  
        class inner{  
            void show(){  
                System.out.println("Local Inner Class") ;  
            }  
        }  
        inner in=new inner();  
        in.show();  
    }  
    public static void main(String args[]) {  
        valan obj=new valan();  
        obj.display();    } }  
  
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```

Local Inner Class

ANONYMOUS INNER CLASS

```
PUBLIC CLASS VALAN{  
    INTERFACE INNER{  
        VOID SHOW(); }  
    VOID CALL(){  
        INNER IN=NEW INNER()  
        {  
            PUBLIC VOID SHOW(){  
                SYSTEM.OUT.PRINTLN("ANONYMOUS INNER CLASS");  
            }  
        };  
        IN.SHOW(); }  
    PUBLIC STATIC VOID MAIN(STRING ARGS[])  
        NEW VALAN().CALL(); } }
```

Anonymous Inner Class