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Nested Classes in Java

=> Java Nested Class :-

-> A class which is defined inside another class or interface is known as nested class

-> Use of nested class :-

1. Nested class enable you to logically group classes that are only used in on place which will increase the use of encapsulation
2. Nested class creates more readable and maintainable code
3. Nested class help to access the private members of outer class

-> Types of Nested Class :-

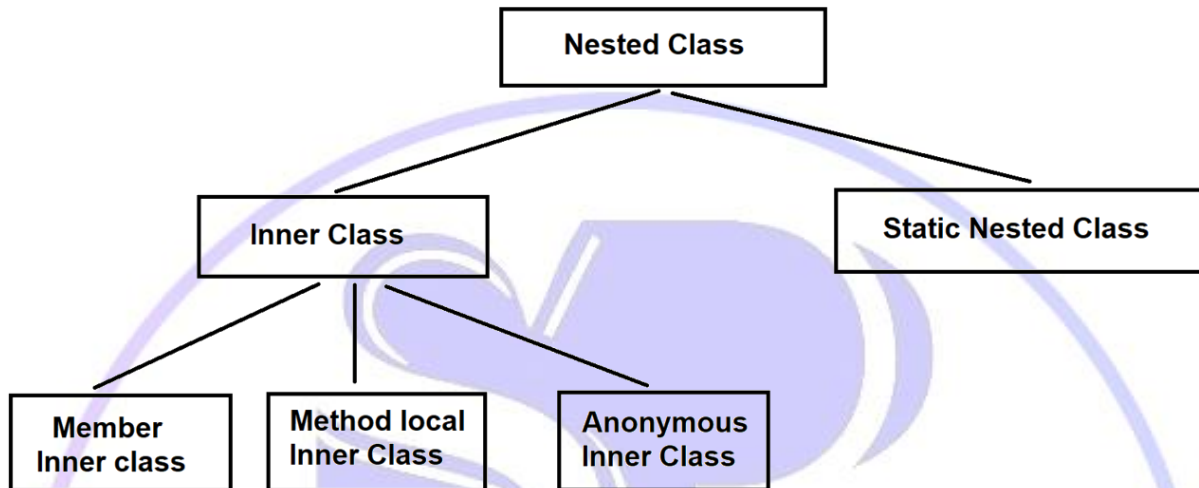
1. Inner class

-> Member Inner Class

-> Method Local Inner Class

-> Anonymous Inner Class

2. Static Nested class



=> Member Inner Class

-> A class created within another class but outside the method is known as Member Inner Class

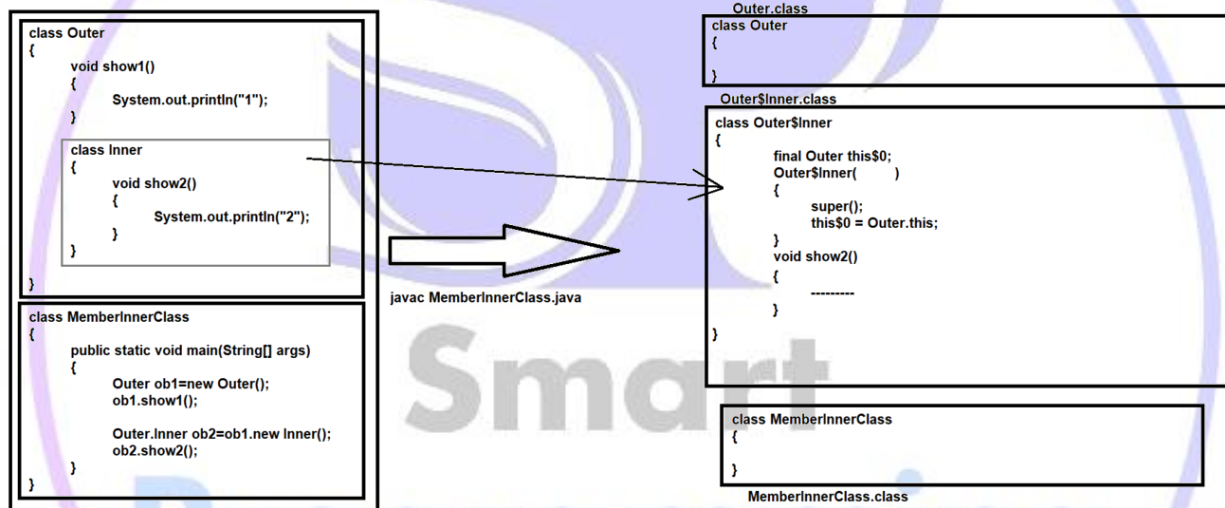
-> Syntax :

```
class Outer
{
    class Inner
    {
```

}

}

-> Program :



-> Points to remember :-

1. Inner class name will be generated as OuterClassName\$InnerClassName
2. Automatically outer class reference is created inside inner class

=> Method Local Inner Class :-

-> When we create a class inside the method of another class, then it is known as method local inner class

-> Syntax :

```
class Outer
```

```
{
```

```
    void methodName()
```

```
    {
```

```
        class Inner
```

```
        {
```

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```
        }
```

```
    }
```

```
}
```


-> Points to remember :

1. We cannot invoke inner class method from outside the method

=> Anonymous Inner Class

-> A class that have no name and its name is generated by the compiler automatically, that class is known as anonymous inner class

-> It is used if we want to override method of class or interface

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