

# NESTED CLASSES

**LECTURE 12**

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- The Java programming language allows you to define a class within another class. Such a class is called a *nested class*.
- This allows for logical grouping of classes that are only used in one place.
- It increases *encapsulation*.
- Creates more readable and maintainable code.
- *Syntax:*

```
class OuterClass
{
    ...
    class NestedClass
    {
        ...
    }
}
```

# CATEGORIES OF NESTED CLASSES

- ❑ NON-STATIC (INNER CLASSES)
- ❑ STATIC (STATIC NESTED CLASSES)
- ❑ NON-STATIC (INNER CLASS):
  - ❑ The inner class has access to members of the enclosing class (i.e. outer class).
  - ❑ To instantiate an inner class, you must first instantiate the outer class.

