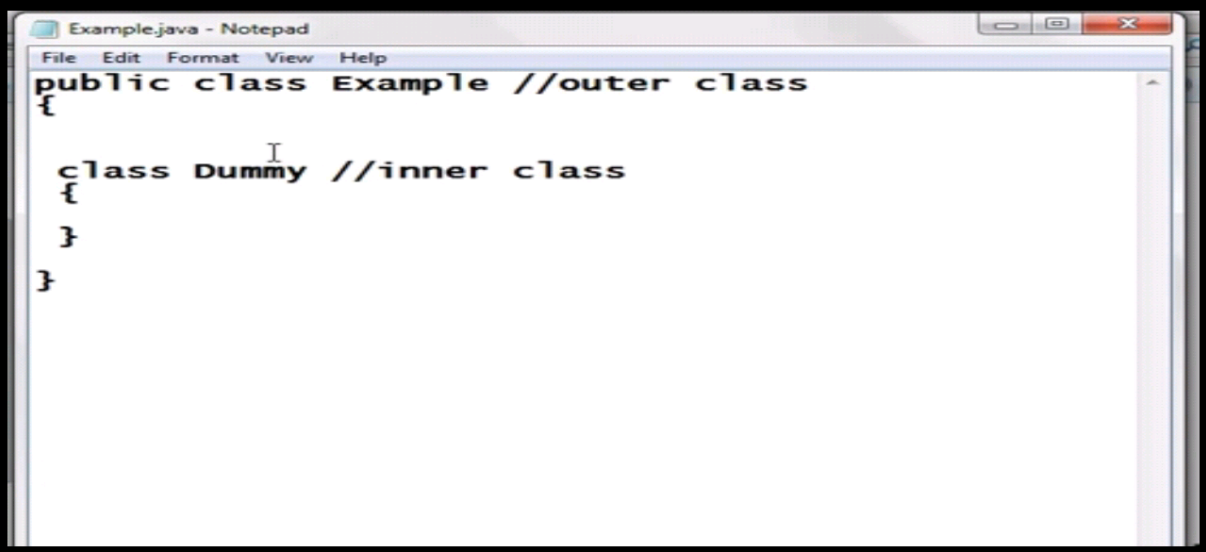
Java Access Modifiers

- Java supports four categories of accessibility rules
  - private
  - protected
  - public
  - default
- Modifiers can be used for class, member variables and member functions

With class

- Outer class and inner class
- For outer class, there can be only two possibilities, either class is a public class or just a class which means it is of default type.
- For inner class any among four access modifiers can be used


Example.java - Notepad
File Edit Format View Help
public class Example //outer class
{
class Dummy //inner class
{
}
}

Remember

- There can be only one public class in a single java file.
- The name of the java file must be the same as the name of the public class.
- Only public class can be accessed directly from outside the package

Member variables and functions

- When members of the class are private, they can not accessed from outside the class body. They are meant to be accessed from the same class in which they are declared.
- When members are protected, they can be accessed from any class of the same package and child class from other package
- When members are public, they are accessible from any class of any package.
- When members are default, they are accessib only from the class of same package.