Sealed classes

Sealed Classes

- Used to restrict which other classes may directly extend your class
- New keywords: sealed, non-sealed, permits
- Sealed classes must be declared in the same package as its direct subclasses
- Every listed subclass must extend the sealed class
- Every subclass must have one of these class modifiers:
 - final, sealed, non-sealed

```
public sealed class Car permits Ford, Renault, Fiat {}
// each of these classes must extend Car
// sublasses have to be made either final, sealed or non-sealed
public final class Ford extends Car {}
// cannot be further extended
public non-sealed class Renault extends Car {}
// can be extended my any class
public sealed class Fiat extends Car permits Uno, Punto {}
// can be extended, but only by classes Uno and Punto
```

```
// interfaces can also be made sealed:
public sealed interface Mammal permits Cat, Dog, Eats {}
// Cat, Dog and Eats could be classes or interfaces
public non-sealed interface Eats extends Mammal {}
// interfaces cannot be final!
// classes must implement interface Mamma directly or indirectly
public final class Cat implements Mammal/{}
public final class Dog implements Eats {}
// implements Mammal through Eats
```