What is data-hiding?

Outside person can’t access our internal data directly or our internal should not go out directly.

By declaring data member as private we can achieve data hiding.

Advantage: Security

What is is-a-relationship?

Also known as inheritance, and it can be achieved through extends keyword

Please check InheritanceTest.java for more details.

Some conclusion about method access:

1. Whatever method parent has by default available to the child and hence on the **child reference** we can call both parent and child class methods.

2. Whatever method child has by default not available to parent and hence on the **parent reference** we can’t call child specific method.

3. Parent reference can be used to hold child object but by using that reference we can’t call child specific methods.

4. Parent objects can be used to hold child object, but child object can’t be used to hold parent object.

What is multiple inheritance?

A java class can’t extend more than one class at a time, hence java won’t provide support for multiple inheritance in class.

class A extends B, C {} //invalid

But java interface can extends any number of interface simultaneously, hence java provide support for multiple inheritance with respect to interface.

interface A extends B, C {} //valid

What about cyclic inheritance?

Cyclic inheritance is not required is not allowed in java.

class C extends C {} //invalid