**INHERITANCE**

Software reusability

Create new class from existing class

* Absorb existing class’s data and behaviors
* Enhance with new capabilities

Subclass extends superclass

* Subclass
  + More specialized group of objects
  + Behaviors inherited from superclass
    - Can customize
  + Additional behaviors

![Diagram

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is a little bit different

* If you have a class A, through inheritance you make a new class B, this process is called as extension. I extended class B from A, it is not derived. B extends A. B adds more capabilities to superclass A.
* A is 🡪 SUPERCLASS
* B is 🡪 SUBCLASS

*~ In JAVA, there is no multiple inheritance. ~*

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2YM5IdXxgjaVGAeMY4xVXxRrl+virT9B0iK6eWSBruXyCEyoO1VLsCFXOST14AA5rXklKXso6L8/MDpdR1bT9IhWXU7yG1R22q0rhcmucHjO7aE6nHpsL6L9p+zLMLn99IRJ5e5U24I3Z4zkjn2q7puk3V5qdxqviC3iW4Mf2e2txJ5qwx4+cg4HLtyTgcBR2rB8DWNnpt7c+E76JZbnQZDPZSOOHglYsrqvQFSSpPbHvWlOnSUJNq7Vr+nW34CPQKKKK4RhRRRQAUUUUAFFFFABRRRQAUUU2WWOCJpZnWONAWZ3OAo9SaAHVhX+rXN7qD6ToBX7RHj7VdsAyWoPOMfxSEdF7dT2Bie/v/ABERHohaz05gd+ouuHkH/TFSOn+2ePQHrWxp2nW2lWKWtlH5cSe+Sx7sSeST1JPJrayp6y37f5/5feAzStLt9Isxb2oY5YvJI5y8rnq7HuTV2iism23dgGMDiobpI5LOZJjiNo2Dn0GOamoIyMGkByVnYnxN8OLeyM4WeNI1jnxuHmwOCj+4LRg/Q0zUfEOrHSbq0+wyW2p27xLcfZFNxtjkJ/eR4GSflIAI4PJ4qZdI1jw1JKnhWCzu7CeRpfsV1M0P2d25OxwrZUn+EjjsccDU0LTLmxinuNTmjn1C8kEtw8QIRcABUXPO1QMZPXk967ZSgry0avdLr/X9Ikz9Fs7TxB4CsopEmhDICQZS0kEyNz8xJJZXB656VgRJPqWub9X0+6vFs2FrDJaQAxymOVi2ckBAxWInsdhHSu/t7WC1jZLaJYlZ2kZVGAWY5Y/Ukk1KAB0GKhYjlcrLfbyHYwvFGhy63FpT22xZrDUobseZ/dGVcfXazVrX1lDqNhLaXGfLlXa204I+hqxRWDnJpLsBj23hu0s9cvNWgMj3NwDtSR/kjJA3FRjjdsXPXpS6BpEumR3Ut08ZubyYzSpACsSHAGFH4cnqTyfSteim6kmrNjDFJtG7OBn1paKzAKzJdAspfE1vr2HW9gt3tgytgPGxBww74K8fU1p0VUZOOwBRRRUgFFFFABRRRQAUVk3XijQ7KfyJ9UthP/zxSQO//fK5NRN4ot2XNrp+qXJxkCOydc/i4UfrWnspvWwro26K5/8At/WJmxbeFb0ejXNxBGPxw7H9KX7b4qk+7o2mxf8AXTUGOPyip+xl5fev8wub9RXFtBdR+XcwpMmQdrqGGfoax1bxY/3o9Gi+kksn/sq07b4p7y6R/wB+5f8AGj2b7r7wNsADgcCisTb4o/57aT/36l/+Ko2+KP8AnrpP/fqX/wCKo9n/AHkBt0ViiPxMetzpK/8AbCQ/+zihrbxM4/5CemR/7ti7fzko9mv5l+P+QG1RXPSaLr8/EviiWEHqLWyiU/mwaiPwjGf+P/WdYvvUS3hjB/CMKKOSHWX5/wDAC5vSyxwRmSaRY0UZLO2APxrEbxv4dMxhttTivZV6x2QNww/BAcVIng/QFYM+lwTN/euMzH83JrWhgit4xHBEkSDoqKFA/AUful3f4f5hqYzeJ3cZtNB1i4HY/Z1iz/38ZaRfEl0vNx4a1iFfULFJ+iyE/pW9iijnh/L+LDUztL13TtYaVLG43TQECaCRSksWem5GwR+VaNY+v6H/AGlCtzYlLfVrb5rS6x91hztbHVD0I9D64qxomp/2xo1vemIwvIpEkROTG4JV1/BgR+FKUY8vNHYDQooorMYUUUUAFFFFABRRRQAUUUUAYGvS3f8Ab2i2tveS2sFy06yGILkuI9ydQemGOO+KevhKwkQDUprzU2/iN3cMwb/gAwn6UviEAXmhSd49SXH4xSL/AFrbrdzlGMeXT/hxFaz06y0+Py7C0gtk/uwxhB+lWcUUVi23qxhiiiikAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAGud0HfZ+Jtf01zmMzR30A/urKuGH/fcbn8a6KsIkR/EJR3n0s/+Q5R/8crWntJeQjdooorIYUUUUAFFFFABRRRQAUUUUAYviT72kH01KL+TVtVi+JP+YV/2Eof61tVpL4I/MQUUUVmMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACsC+IT4gaR6vY3S5/4FEa3657U+fH2g47Wt3n/yFWtH4n6P8mJnQ0UUVkMKKKKACiiigAooooAKKKKAMTxJ9/Rx66nF/wCgsf6Vt1h+Im/4mHh+P+/qY/SCVv6VuVpL4Y/11EFFFFZjCiiigAooooAKKKKACiiigAooozQAUU0yIOrKPqaje8to/wDWXMKf7zgU7NgTUVQbXdIQ4bVbJT6G4Qf1pBr+jHpq1jn/AK+U/wAarkn2YGhWFMPO+INqB0tdNlY/WSRAP/RbVYu/E+h2Nu09zq1mqKM4Eysx9gAck+wqr4atbmae91zUY3in1FlEUEgw0ECAiNCOxOWYjsWx2rSMXCLk9OgjfooorAYUUUUAFFFFABRRRQAUUUUAYOvfN4i8Nr2F5K35QSf41vVwWs+DdMTX9BRLjU1WS5lVv+JncH/li54Jfjp2ra/4QbRzjfJqb47Pqtyf/aldc40uWPvPbt5vzJVzo8j1qCa+tLdSbi5hiA6mSQLj86xx4J8P/wAdiZexEtxI+f8AvpjU0XhHw7D/AKvQ9PB9fsyn+lY2pd39y/zHqV5/H3hS3Yq2v2DuOCkMwkb8lyaE8Z2E6BrKz1W6U9DFp02D+JUCtuG1t7dQtvBFEB0CIBj8qlp81JbRf3/8ANTBbxHfOv8AonhnVpG7eZ5MQ/V8/pUD6t4vk/49fDFnH73WqYx+CRt/OulpaFUivsL8f8wObX/hNJh+8/sO1/3TNNj/ANBqYWPiZ1Pm67Yof+mWmnj85DW9RR7V9Evu/wAwsYB0fXpD8/iiVB6Q2UQ/9CDUw+GtQcDzvFern12CBP5R10VFL201tb7l/kFjmj4Jt5STda1rtwT66lJGPyQqKcPAehk5lW/m/wCuupXDfzeujop+3q/zBZGHH4M8OxqB/ZFs+O8i7z+bZzUy+FPD69NE0/8A8BU/wrWoqfbVHvJ/eFkUF0PSUGE0yzUeggUf0px0XSyMHTrQj/rgv+FXaKnml3GU4NH022kEltp9rE4OQ0cKqfzAq5RRSbb3AKKKKQBRRRQAUUUUAFFFFABRRRQB/9k=)

**CHECK CommissionEmployee2.java, BasePlusCommissionEmployee3.java, BasePlusCommissionEmployeeTest3.java in order**

*There is no slicing problem in JAVA because everything is reference, there is no object assignment.*

![Table

Description automatically 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All Other

In a class, if I say something is public, I can access that thing: inside the class, package, subclass, world . . .

no modifier is kind of no name namespace.

**Object Class**

All the classes that you make in JAVA has to come from class Object. Object is the superclass of all the classes. Whatever you do, it has to be extended from class Object. You don’t have to but you can write this while you are defining a class:

class C extends Object { . . . }

Methods that you inherit automatically:

* clone ( for copying objects )
* equals ( for comparing objects, returns true or false )
* finalize
* getClass ( returns the class related information, my class name (getName()) etc. )
* hashCode ( not very important for now, related to equals )
* notify, notifyAll, wait
* toString ( returns class name and hashCode by default )

When you make a class in C++; default constructor, copy constructor, destructor, copy assignment, move constructor, move assignment are available by default.

In JAVA, above methods are available by default.

If 2 things are equal, their hashCodes are same. hashCode returns an integer. By default, hashCode returns the memory address of the object. So if you override equals, you need to override hashCode too.

Money m1 = new Money(10, 20);

Money m2 = new Money(10, 20);

if (m1 == m2) 🡪 this is false, references are not equal. OK for fundamental types.

if (m1.equals(m2)) 🡪 this is false, equals just checks addresses

You should override equals.

Default meaning of equals is same as “==”. It compares the references.

Clone is protected, you cannot call clone method for a new class unless you override it and make it public because it is protected. So by default your objects are not clonable by anybody else. If you clone it, you call the superclass’s clone method which does the shallow copy and you add your stuff on it.

![Text

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confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE1lcnQAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM4NQAAkpIAAgAAAAM4NQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**POLYMORPHISM**

Making the decision of which method to call during the runtime depending on object type through the reference.

All the public methods are polymorphic (resolved during runtime) in JAVA by default. There are some methods to prevent this behaviour.

If the reference is superclass reference and you call the method (remember all methods are virtual by default) so most of the time these are polymorphic calls.

When a program invokes a method through a superclass variable, the correct subclass version of the method is called, based on the type of the reference stored in the superclass variable.

The same method name and signature can cause different actions to occur, depending on the type of object on which the method is invoked.

Facilitates adding new classes to a system with minimal modifications to the system’s code.

**Demonstrating Polymorphic Behaviour**

A superclass reference can be aimed at a subclass object

* This is possible because a subclass object is a superclass object as well
* When invoking a method from that reference, the type of the actual referenced object, not the type of the reference, determines which method is called

A subclass reference can be aimed at a superclass object only if the object is downcasted

void pr (Object[] oa) {

for (Object o : oa)

System.out.println(o.toString());

// System.out.println(o); 🡪 This one also works

}

Takes array of objects and at every iteration of enhanced for statement, toString method of that object is called and it will be printed. This will work for any kind of object.

Money m1 = …

So each of toString() method in enhanced for loop in function pr, will be polymorphically decided. It doesn’t know what toString method it would call until the runtime (LATE BINDING).

String s1 = …

Object[] arr = new Object[2];

arr[0] = m1;

arr[1] = s1;

pr(arr);

**CHECK PolymorphismTest.java**

For static methods, they are early binding. Rest of the public methods are late binding.

Whatever you override from the Object class, they are all polymorphic calls.

**Abstract Classes and Methods**

Abstract Classes**:**

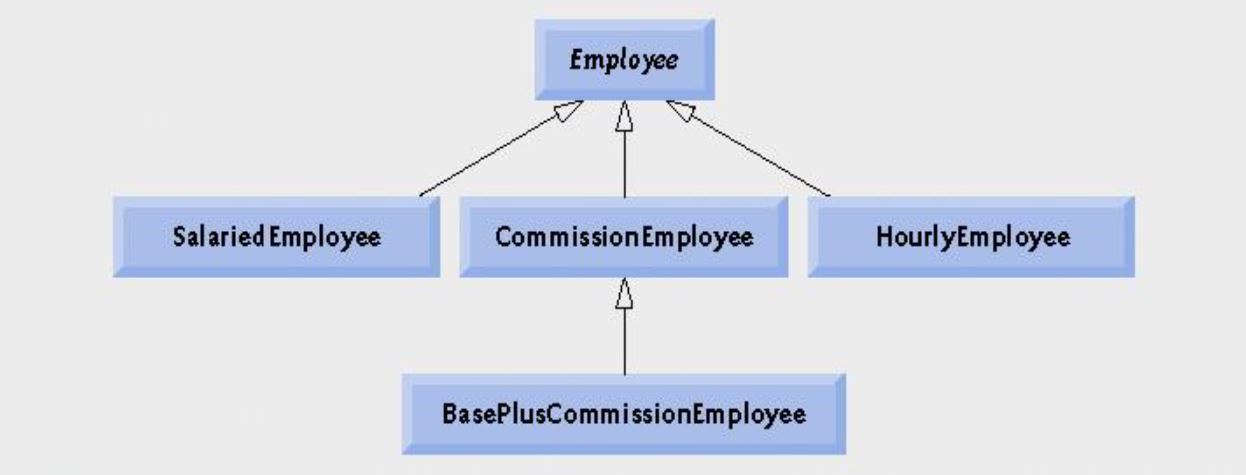
* Classes that are too general to create real objects
* Used only as abstract superclasses for concrete subclasses and to declare reference variables
* Many inheritance hierarchies have abstract superclasses occupying the top few levels
* Keyword abstract
  + Use to declare a class abstract
  + Also use to declare a method abstract
    - Abstract classes normally contain one or more abstract methods. You may have an abstract class that doesn’t have any abstract method.
    - All concrete subclasses must override all inherited abstract methods
    - Abstract method means that which method to call will be decided during the runtime

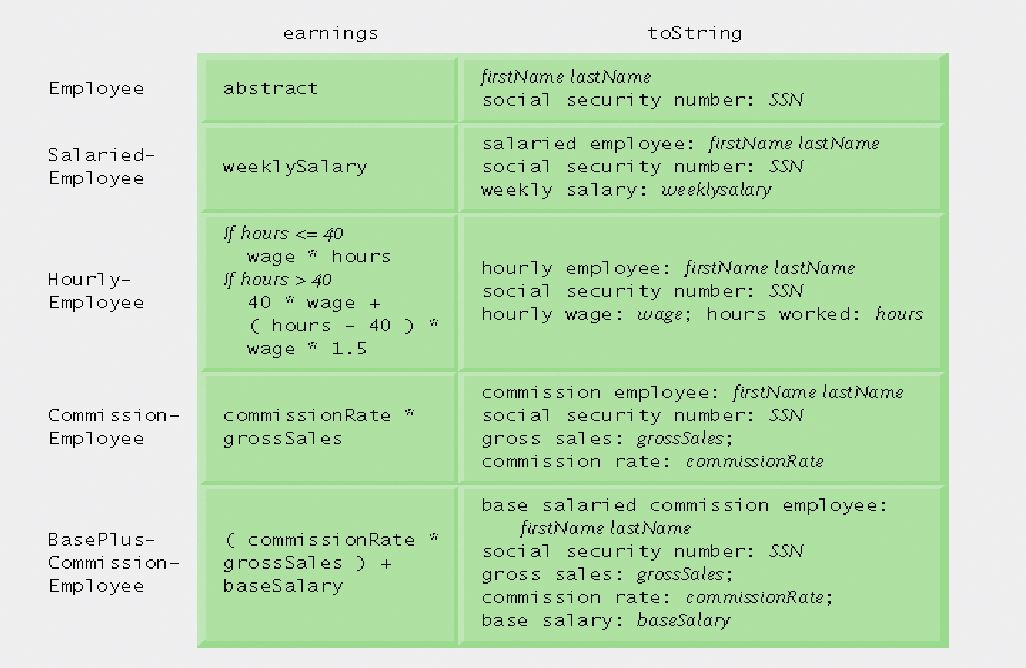
Iterator Classes**:**

* Traverses all the objects in a collection, such as an array
* Often used in polymorphic programming to traverse a collection that contains references to objects from various levels of a hierarchy

Creating abstract superclass : Employee

* abstract superclass Employee
* earnings is declared abstract
  + No implementation can be given for earnings in the Employee abstract class
* An array of Employee variables will store references to subclass objects
  + earnings method calls from these variables will call the appropriate version of the earnings method





**CHECK Employee.java, SalariedEmployee.java, HourlyEmployee.java, CommissionEmployee.java, BasePlusCommissionEmployee.java, PayrollSystemTest.java in order.**

*~ You cannot have reference of abstract class. ~*

**Operator instanceof and Downcasting**

• Dynamic binding

– Also known as late binding

– Calls to overridden methods are resolved at execution time, based on the type of object referenced

• instanceof operator

– Determines whether an object is an instance of a certain type

– Needs to be used if you are using the downcasting

– {anyReference} instanceof Object 🡪 returns True

• Downcasting

– Convert a reference to a superclass to a reference to a subclass

– Allowed only if the object has an is-a relationship with the subclass

• getClass method

– Inherited from Object

– Returns an object of type Class

• getName method of class Class

– Returns the class’s name

**final Methods and Classes**

• final methods

– Cannot be overridden in a subclass

– private and static methods are implicitly final

– final methods are resolved at compile time, this is known as static binding

**• Compilers can optimize by inlining the code**

• final classes

– Cannot be extended by a subclass

– All methods in a final class are implicitly final

You cannot inline a virtual function in C++ bc when we write that code, we don’t know which function to be called. Since we don’t know which function to be called, I cannot inline it, I cannot copy the code and paste it in my code. So this is way of optimizing your code also in JAVA.