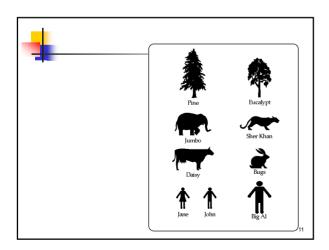


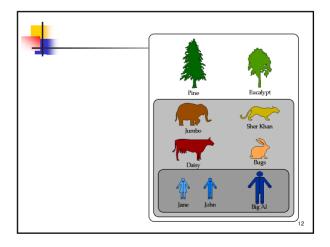
## 1.2. Trut ng hóa d liu (3)

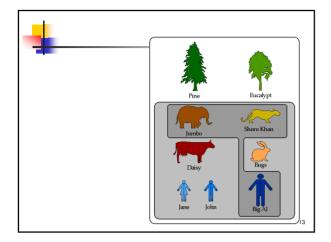
Any model that includes the most important, essential, or distinguishing aspects of something while suppressing or ignoring less important, immaterial, or diversionary details. The result of removing distinctions so as to emphasize commonalties (*Dictionary of Object Technology*, Firesmith, Eykholt, 1995).

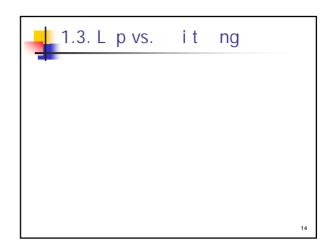
1.2. Tr u t ng hóa d li u (2)

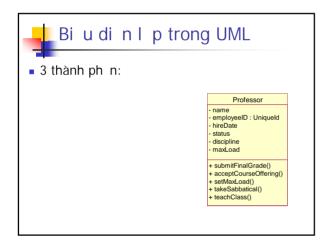
• T p h p các th hi n c a các th c th thành các nhóm có chung các thu c tính

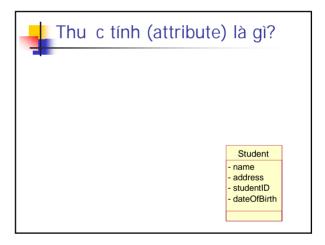


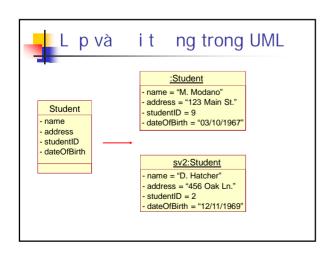


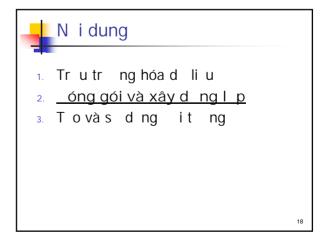


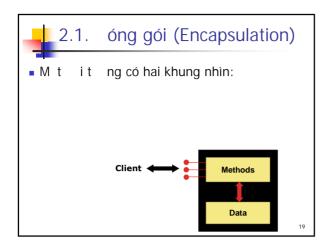


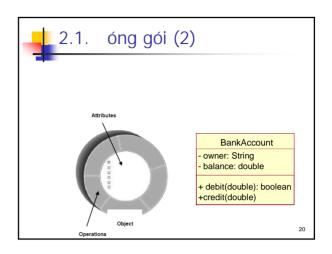


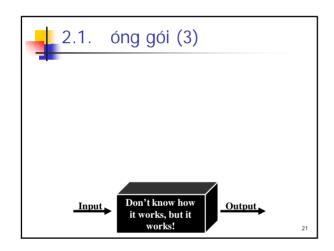


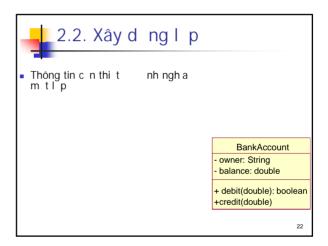


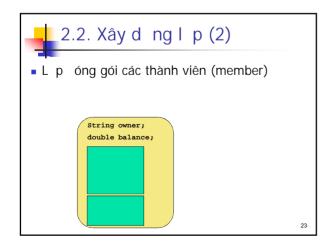


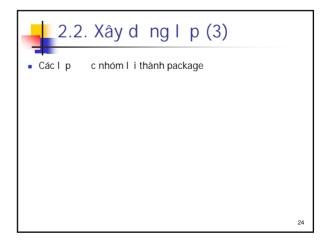












```
2.2.1. Khai báo I p

Cú pháp khai báo:

package tenpackage;

chi_dinh_truy_cap class TenLop {

// Than lop
}
```

```
Víd - Khai báo I p

package oop.k52.cnpm;

public class Student {
    ...
}
```

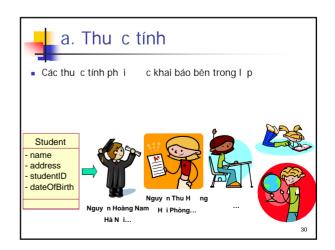
```
2.2.2. Khai báo thành viên c a l p
```

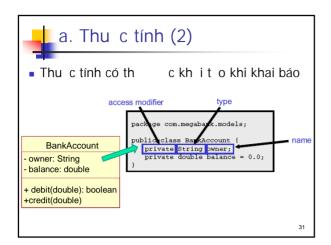
	public	Không có	private
Cùng I p			
Cùng gói			
Khác gói			
	1		27

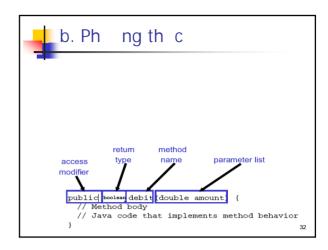
```
vid : private

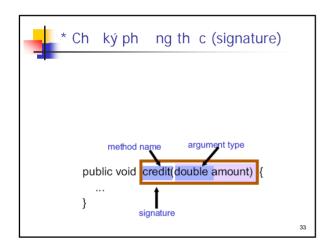
class Student{
   private String name;
   public String getName() {
      return this.name;
   }
   public void setName(String name)
   {
      this.name = name;
   }
}
```

```
class Student{
  private String name;
  public String getName() {
    return this.name;
  }
  public void setName(String name)
  {
    this.name = name;
  }
} class Manager{
  private Student[] students;
  public initianize()
  {
    students[0] = new Students();
    //student.name = "Hung"; error
    student.setName("Hung");
  }
}
```











```
public Boolean checkOdd(int i)
{
   if (i %2 ==0)
      return true;
   else
      return false;
}

public Boolean checkOdd(int i)
{
   return true;
   return false;
}
```

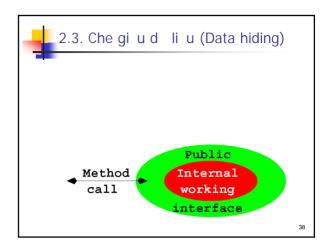
```
c. Thành viên h ng

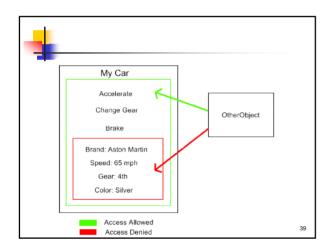
• Ví d :
    final double PI = 3.141592653589793;
    public final int VAL_THREE = 39;
    private final int[] A = { 1, 2, 3, 4, 5, 6 };
```

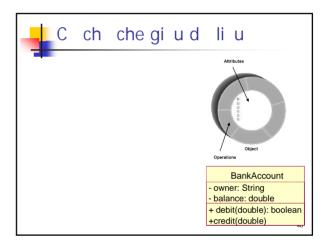
```
package com.megabank.models;
public class BankAccount {
   private String owner;
   private double balance;

public boolean debit(double amount){
   if (amount > balance)
      return false;
   else {
      balance -= amount; return true;
   }
}

public void credit(double amount){
   balance += amount;
}
```

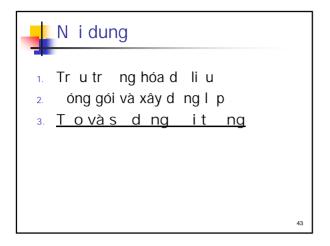


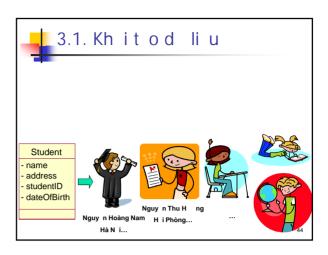


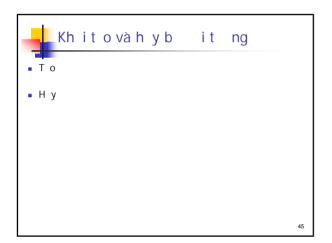


```
package com.megabank.models;
public class BankAccount {
   private string owner;
   private double balance = 0.0;
}
public String getowner() {
   return owner;
   private double balance = 0.0;
}
```

```
members are not externally accessible; but
                                                                set methods: public
                           we need to know and
                                                               methods that allow
                            modify their values
                                                                 clients to modify
                                                                 private data; also
 public Time () {
    setTime(0, 0, 0);
public void setHour (int h) { hour = ( ( h >= 0 & k & h < 24 ) ? h : 0 ); }
public void setMinute (int m) { minute = ( ( m >= 0 && m < 60 ) ? m : 0 ); }</pre>
public void setSecond (int s) { second = ( ( s >= 0 && s < 60 ) ? s : 0 ); }</pre>
 public void setTime (int h, int m, int s) {
    setHour(h);
     setMinute(m);
setSecond(s);
                                                                get methods: public
                                                               methods that allow
public int getHour () { return hour; }
                                                               clients to read private
                                                               data; also known as
public int getMinute () { return minute; }
public int getSecond () { return second; }
```









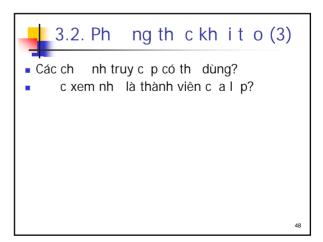
```
3.2. Ph ng th c kh it o (2)

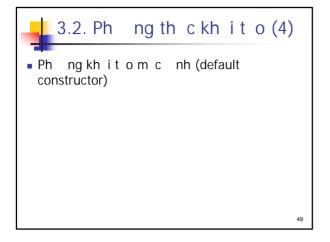
• Ví d:

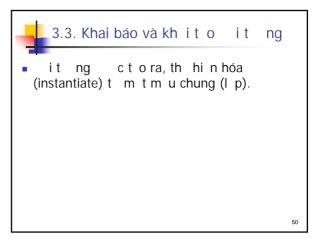
public BankAccount(String o, double b){

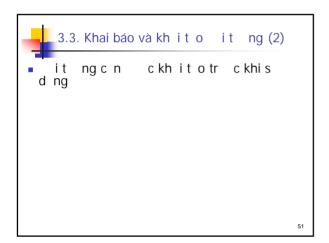
owner = o;

balance = b;
}
```











```
3.3. Khai báo và kh it o it ng (5)

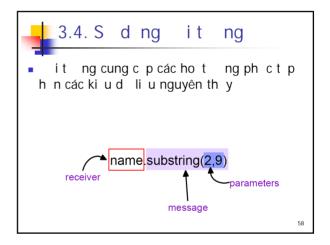
• Ví d :
    Employee emp1 = new Employee(123456);
    Employee emp2;
    emp2 = emp1;
    Department dept[] = new Department[100];
    Test[] t = {new Test(1), new Test(2)};
```

```
class BankAccount{
  private String owner;
  private double balance;
}
public class Test{
  public static void main(String args[]){
     BankAccount acc1 = new BankAccount();
  }
}
```

```
public class BackAccount{
   private String owner;
   private double balance;
   public BankAccount(){
      owner = "noname";
   }
}
public class Test{
   public static void main(String args[]){
      BankAccount accl = new BankAccount();
   }
}
```

```
public class BankAccount {
   private String owner;
   private double balance;
   public BankAccount(String name){
     setOwner(name);
   }
   public void setOwner(String o){
      owner = o;
   }
}

public class Test{
   public static void main(String args[]){
     BankAccount account1 = new BankAccount();
     BankAccount account2 = new BankAccount("Hoang");
   }
}
```



```
3.4. S d ng it ng (2)

Toán t "."

BankAccount account = new BankAccount();
account.credit(1000.0);
system.out.println(account.getBalance());

BankAccount method

public void credit(double amount) {
    setBalance(getBalance() + amount);
}
```

```
public class BankAccount{
    private String owner;
    private double balance;
    public BankAccount(String name) { setOwner(name);
    }
    public void setOwner(String o){ owner = o; }
    public String getOwner(){ return owner; }
}

public class Test{
    public static void main(String args[]){
        BankAccount acc1 = new BankAccount("");
        BankAccount acc2 = new BankAccount("Hong");
        acc1.setOwner("Hoa");
        System.out.println(acc1.getOwner());
}
```

