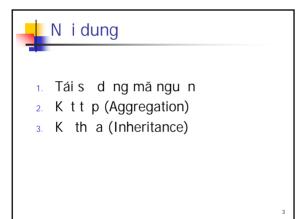
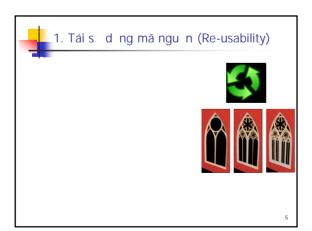


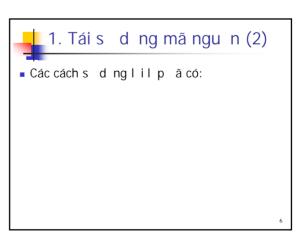
- Gi i thích nguyên lý k th a và th t kh i t o, h y b i t ng trong k th a
- Áp d ng các k thu t, nguyên lý v k t t p và k t th a trên ngôn ng I p trình Java

2

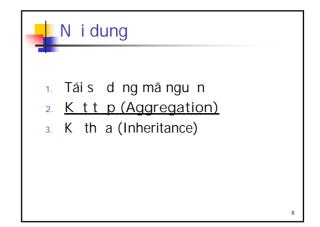


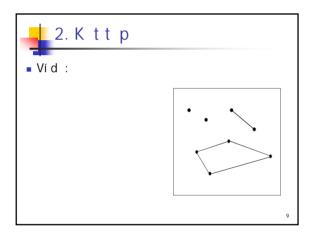


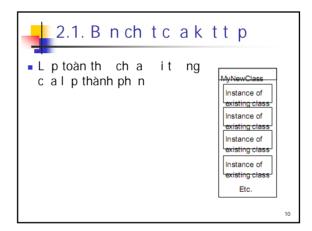


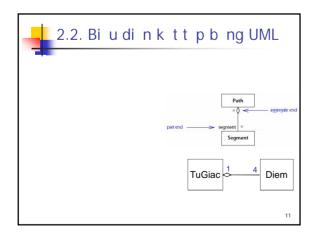


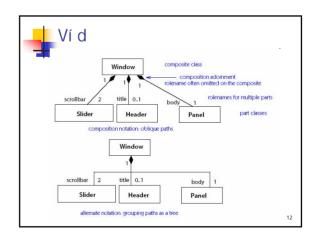








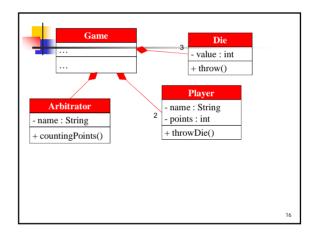




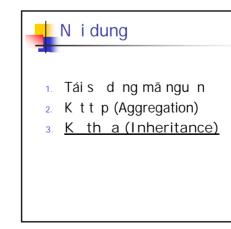
```
class Diem {
  private int x, y;
  public Diem(){}
  public Diem(int x, int y) {
     this.x = x; this.y = y;
  }
  public void setX(int x){ this.x = x; }
  public void hienThiDiem(){
     System.out.print("(" + x + ", " + y + ")");
  }
}
```

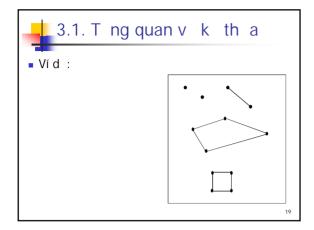
Víd khácv K ttp

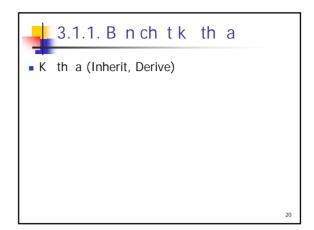
M t trò ch i g m 2 i th , 3 quân súc s c và 1 tr ng tài.

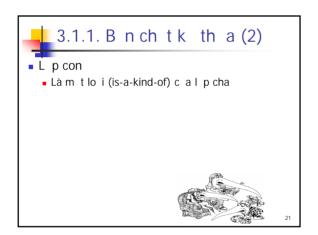


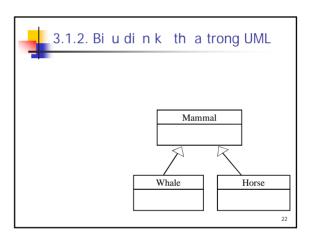
2.4. The takhit otrong katap

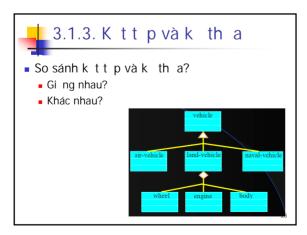


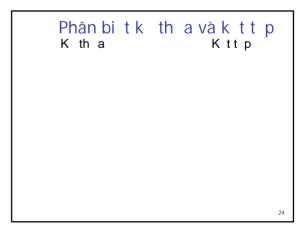


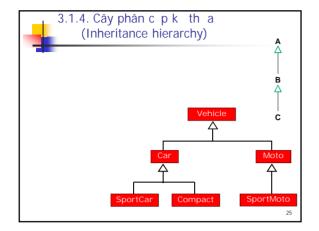


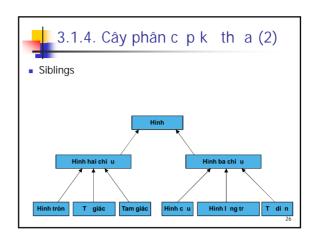


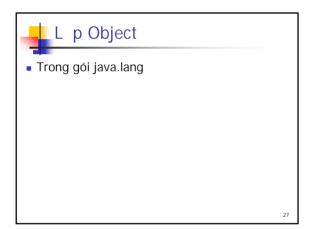


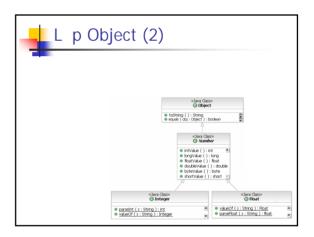




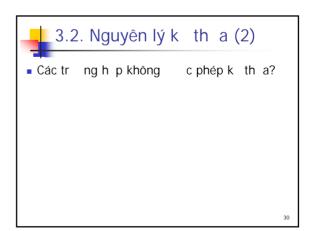








3.2	. Ngu	yên lý k	th a	
		Г		
	public	Không có	protected	privat
Cùng 1 p				
L p con cùng gói				
L p con khác gói				
Khác gói, non-inher				



3.3. Cú pháp k th a trên Java Cú pháp k th a trên Java: Ví d : class HinhVuong extends TuGiac { ... }

```
public class TuGiac {
  protected Diem d1, d2, d3, d4;
  public void setD1(Diem _d1) {d1=_d1;}
  public Diem getD1(){return d1;}
  public void printTuGiac(){...}
}
public class HinhVuong extends TuGiac {
  public HinhVuong(){
     d1 = new Diem(0,0); d2 = new Diem(0,1);
     d3 = new Diem(1,0); d4 = new Diem(1,1);
  }
public class Test{
  public static void main(String args[]){
     HinhVuong hv = new HinhVuong();
     hv.printTuGiac();
}
                                                 32
```

```
public class TuGiac {
  protected Diem d1, d2, d3, d4;
  public void printTuGiac(){...}
  public TuGiac(){...}
public TuGiac(Diem d1, Diem d2,
                Diem d3, Diem d4) { ...}
public class HinhVuong extends TuGiac {
  public HinhVuong(){ super(); }
  public HinhVuong(Diem d1, Diem d2,
                   Diem d3, Diem d4){
      super(d1, d2, d3, d4);
  }
public class Test{
  public static void main(String args[]){
     HinhVuong hv = new HinhVuong();
     hv.printTuGiac();
  }
                                                   33
```

```
class Person {
  private String name;
  private Date bithday;
  public String getName() {return name;}
  ...
}
class Employee extends Person {
  private double salary;
  public boolean setSalary(double sal){
    salary = sal;
    return true;
  }
  public String getDetail(){
    String s = name+", "+birthday+", "+salary;
  }
}
```

```
class Person {
  protected String name;
  protected Date bithday;
  public String getName() {return name;}
  ...
}
class Employee extends Person {
  private double salary;
  public boolean setSalary(double sal){
    salary = sal;
    return true;
  }
  public String getDetail(){
    String s = name+", "+birthday+", "+salary;
  }
}
```

```
public class Test {
  public static void main(String args[]){
      Employee e = new Employee();
      e.setName("John");
      e.setSalary(3.0);
  }
}
```

```
public class Person {
  Date birthday;
  String name;
  ...
}
public class Employee extends Person {
  ...
  public String getDetail() {
    String s;
    String s = name + "," + birthday;
    s += "," + salary;
    return s;
}
```

```
package abc;
public class Person {
    protected Date birthday;
    protected String name;
    ...
}

import abc.Person;
public class Employee extends Person {
    ...
    public String getDetail() {
        String s;
        s = name + "," + birthday + "," + salary;
        return s;
    }
}
```

```
3.4. Kh it o và hu b it ng

• Kh it o it ng:

• H y b it ng:
```

```
3.4.1. T
                   ng g i constructor c a l p
     cha
public class TuGiac {
 protected Diem d1, d2;
                              public class Test {
 protected Diem d3, d4;
                               public static void
 public TuGiac(){
                                main(String arg[])
   System.out.println
      ("Lop cha TuGiac()");
                                 HinhVuong hv =
                                   new HinhVuong();
 //...
}
                              }
public class HinhVuong
     extends TuGiac {
 public HinhVuong(){
  //Tu dong goi TuGiac()
  System.out.println
   ("Lop con HinhVuong()");
 }
```

```
3.4.2. G itr c ti p constructor c a l p cha

B t bu c n u l p cha không có ph ng th c kh it o m c nh
```

```
Ví d
                                     public class Test {
                                       public static
public class TuGiac {
                                       void main(String
  protected Diem d1, d2;
                                       arg[])
  protected Diem d3, d4;
  public TuGiac(Diem d1,
Diem d2, Diem d3, Diem d4){
                                        HinhVuong hv =
                                       new
   System.out.println("Lop cha
    TuGiac(d1, d2, d3, d4)");
   this.d1 = d1; this.d2 = d2;
this.d3 = d3; this.d4 = d4;
                                       HinhVuong();
  }
public class HinhVuong extends TuGiac {
 public HinhVuong(){
    System.out.println
   ("Lop con HinhVuong()");
                                                        42
```