```
public Address(String street, String city, String state, String zip) {
                                                                                                                                                                                                                                                                                                                                                                                                                                         return street + '\n' + city + ", " + state + ' ' + zip + '\n';
                                                                                                            /stst Create an address with street, city, state, and zip st
Address.java
                                                                                                                                                                                                                                                                                                                                                                                                                               public String getFullAddress() {
                                                                                                                                                                                                           public String getStreet() {
                                                                                                                                                                                                                                                                                                                     public String getState() {
                                                                                                                                                                                                                                                                public String getCity() {
                                 3 public final class Address {
                                                                                                                                  this.street = street
                                                                                                                                                                                                                                                                                                                                                                           public String getZip() {
                                                                                                                                                     this.state = state;
                                                                                                                                                                                                                                                                                                                                                                                                                     /** Get full address */
                                                      private String street;
                                                                                                                                            this.city = city;
                                                                            private String state;
                                                                  private String city;
                                                                                                                                                                                                 /** Return street */
                                                                                       private String zip;
                                                                                                                                                                  this.zip = zip;
                                                                                                                                                                                                                                                                                                           /** Return state */
                                                                                                                                                                                                                                                      /** Return city */
                                                                                                                                                                                                                       return street;
                                                                                                                                                                                                                                                                                                                                                                 /** Return zip */
                                                                                                                                                                                                                                                                                                                                 return state;
                                                                                                                                                                                                                                                                             return city;
                                                                                                                                                                                                                                                                                                                                                                                      return zip;
             1 package ex4;
2021/12/10 上午2:29
```

AssociationDemo.java

2021/12/10 上午2:29

```
static void enroll(Course course, Student student) {
                                                                                                                                                                               Course chinese = new Course("Chinese");
Course english = new Course("English");
                                                                                                                             Student peter = new Student("Peter");
                                                                                                    public static void main(String[] args) {
                                                                                                                                                                                                           Course maths = new Course("Maths");
                                                                                                                                           Student mary = new Student("Mary");
                                                                                                                                                      Student john = new Student("John");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       public void addCourse(Course course) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              courseList[count++] = course;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       private static final int MAX = 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               courseList = new Course[MAX];
                                                                                                                                                                                                                                                                                                                                                                                                                                                            course.addStudent(student);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         student.addCourse(course);
                                                                                                                                                                                                                                                                                                                                                                                                                                               // associate objects here
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               private Course[] courseList;
                                                                                                                                                                                                                                                              enroll(chinese, peter);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     @Override
public String toString() {
                                                                         7 public class AssociationDemo {
                                                                                                                                                                                                                                                                          enroll(chinese, mary);
                                                                                                                                                                                                                                                                                                 enroll(english, john);
                                                                                                                                                                                                                                                                                      enroll(english, mary);
                                                                                                                                                                                                                                 enroll(maths, peter);
                                                                                                                                                                                                                                                enroll(maths, john);
                                                                                                                                                                                                                                                                                                                             chinese.showList();
                                                                                                                                                                                                                                                                                                                                         english.showList();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Student(String name) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    private int count = 0;
                                                                                                                                                                                                                                                                                                                                                     maths.showList();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   this.name = name;
                                                                                                                                                                                                                                                                                                                                                                                            peter.showList();
                                                                                                                                                                                                                                                                                                                                                                 john.showList();
mary.showList();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             private String name;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if(count < MAX)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return name;
                                                  * @author vanting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        41 class Student {
42 private static
43 private int cc
44 private Course
45 private String
1 package ex4;
             3 /*
                                                                                      447
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```

```
AssociationDemo.java
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 System.out.print(studentList[i] + " / ");
                                                                                     for(int i=0; i<count; i++)
    System.out.print(courseList[i] + " / ");
    System.out.println("");</pre>
                                                                                                                                                                                                                                                                                                                                                                                               public void addStudent(Student student) {
                                                                                                                                                                                                                                                                                                                                                                                                                                   studentList[count++] = student;
                                                                                                                                                                                                                                                                                                                                            studentList = new Student[MAX];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                System.out.print(name + ": ");
                                                                   System.out.print(name + ": ");
                                                                                                                                                                                                              private static final int MAX = 10;
                                                                                                                                                                                                                                                   private Student[] studentList;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     for(int i=0; i<count; i++)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   System.out.println("");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          public String toString() {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              public void showList() {
                                                   public void showList() {
                                                                                                                                                                                                                                    private int count = 0;
                                                                                                                                                                                                                                                                                                                             this.name = name;
                                                                                                                                                                                                                                                                                                        Course(String name) {
                                                                                                                                                                                                                                                                     private String name;
                                                                                                                                                                                                                                                                                                                                                                                                                   if(count < MAX)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return name;
                60 }
61 Public void
63 System.o
64 For(int
65 System.o
66 System.o
67 Private stat
68 Private stat
71 private stat
72 private stat
73 private stat
74 private stat
75 private stat
76 Course(String
77 this.nam
78 StudentL
79 }
81 public void
82 if(count
83 studentL
84 }
85 Goverride
85 Goverride
86 Goverride
87 public void
88 public void
89 }
90 Foverride
89 Foverride
89 System.o
90 System.o
91 For(int
93 Foverride
94 System.o
2021/12/10 上午2:29
```

```
return super.toString() +
   "Monthly payment is " + loan.getMonthlyPayment() + '\n' +
                                                                                                                                                                                                                                                                                                                                                                           "Total payment is " + loan.getTotalPayment();
                                                                                                                                     /stst Create a borrower with specified name and address st
                                                                        /stst Construct a borrower with default properties st/
                                                                                                                                                 public Borrower(Name name, Address address) {
                                                                                                                                                                                                                                                                                                                            /** String representation for borrower */
                    3 public class Borrower extends Person {
                                                                                                                                                                                                                                                                           public void setLoan(Loan loan) {
                                                                                                                                                                                                                                                                                                                                        public String toString() {
                                                                                                                                                            super(name, address);
                                                                                                                                                                                                             public Loan getLoan() {
    return loan;
                                                                                                                                                                                                                                                              /** Set a new loan */
                                                                                                                                                                                                                                                                                       this.loan = loan;
                                                                                    public Borrower() {
                                                 private Loan loan;
                                                                                                                                                                                                  /** Return loan */
                                                                                                 super();
1 package ex4;
```

Borrower.java

2021/12/10 上午2:29

```
JOptionPane.showMessageDialog(null, borrower.toString());
                                                                                                                                                                Borrower borrower = new Borrower(name, address);
BorrowLoan.java
                                                                              Name name = new Name("John", 'D', "Smith");
                                                                                                                                       Loan loan = new Loan(5.5, 15, 250000);
                                                                public static void main(String[] args) {
   // Create a name
                                                                                                                                                                                              // Display loan information
                    1 package ex4;
2021/12/10 上午2:29
```

public void addFactorialPlugin(FactorialInterface f) {
 factorialPlugin = f;

*/@author vanting

*/
public class Calculator {

public class Calculator {

public void addFactoria.

public void addFactoria.

factorialPlugin = f

public int findFactoria f

public int findFactoria

return factorialPlu

}

return factorialPlugin.factorial(n);

public int findFactorial(int n) {

private FactorialInterface factorialPlugin;

Calculator.java

1 package ex4; 2 /** 3 /** 4 *

2021/12/10 上午2:29

```
abstract public void color();
  2021/12/10 上年2:29
```

DependenceManager.java

2021/12/10 上午2:30

Colorable.java

public static void main(String[] args) {
 Calculator cal = new Calculator();
 cal.addFactorialPlugin(new FactorialImpl1());
 int n = cal.findFactorial(3);
 System.out.println(n); 4 * @author vanting
5 */
7 public class DependenceManager {
8 public static void main(String[]
10 calculator cal = new Calcula
11 cal.addFactorialPlugin(new F int n = cal.findFactorial(3)
13 System.out.println(n);
14 } 1 package ex4; 2 /** 3 /** 4 * localhost:4649/?mode=clike 7

localhost:4649/?mode=clike

```
1 package ex4;
2 /**
3 /**
2021/12/10 上午2:30
 Edible.java
2021/12/10 上年2:30
```

FactorialImpl1.java

```
package ex4;

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FactorialImpl2.java
              2021/12/10 上午2:30
```

public abstract int factorial(int n);

package ex4;

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FactorialInterface.java

2021/12/10 上午2:30

```
InterfaceDemo.java
```

2021/12/10 上午2:30

Loan.java

2021/12/10 上午2:30

```
public Loan(double annualInterestRate, int numberOfYears, double loanAmount) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          double monthlyInterestRate = annualInterestRate / 1200;
return loanAmount * monthlyInterestRate / (1 - (Math.pow(1 / (1 +
                                                                                                                                                                                                                                                                                                                                                                                                                                     public void setAnnualInterestRate(double annualInterestRate) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   public void setNumberOfYears(int numberOfYears) {
                                                                                                                                                                                                                                          this.annualInterestRate = annualInterestRate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    this.annualInterestRate = annualInterestRate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               public void setLoanAmount(double loanAmount) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            monthlyInterestRate), numberOfYears * 12)));
                                                                                                                                                                                                                                                          this.numberOfYears = numberOfYears;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 this.numberOfYears = numberOfYears;
                                                                                                                                                                                                                                                                                                                                                       public double getAnnualInterestRate()
                                                                                                                                                                                                                                                                                        loanDate = new java.util.Date();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              public double getMonthlyPayment() {
                                                                                                                                                                                                                                                                                                                                                                                                                     /** Set a new annualInterestRate */
                                                             private double annualInterestRate;
                                                                                                                                                                                                                                                                         this.loanAmount = loanAmount;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               this.loanAmount = loanAmount;
                                                                                                             private java.util.Date loanDate;
                                                                                                                                                                                                                                                                                                                                       /** Return annualInterestRate */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /** Set a new numberOfYears */
                                                                                                                                                                                                                                                                                                                                                                      return annualInterestRate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    public int getNumberOfYears()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 public double getLoanAmount()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /** Find monthly payment */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /** Return numberOfYears */
                                                                                                                                            /** Default constructor */
                                                                               private int numberOfYears;
                                                                                              private double loanAmount;
                                                                                                                                                                           this(7.5, 30, 100000);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /** Set a newloanAmount */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /** Find total payment */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return numberOfYears;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /** Return loanAmount */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return loanAmount;
                             3 public class Loan {
                                                                                                                                                          public Loan() {
1 package ex4;
                                                            412
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```

```
2021/12/10 ±42:30 Loanjava

59 public double getTotalPayment() {
60 return getMonthlyPayment() * numberOfYears * 12;
61 }
62 /** Return loan date */
64 public java.util.Date getLoanDate() {
65 return loanDate;
66 }
67 }
```

Name.java

2021/12/10 上午2:30

```
2021/12/10 Lf=23.1

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| * and open the template in the editor. |
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```

Person.java

2021/12/10 上午2:31

```
this(new Name("Jill", 'S', "Barr"),
new Address("100 Main", "Savannah", "GA", "31411"));
                                                                                                                                                            /stst Construct a person with specified name and address st '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /stst Implement compareTo in the Comparable interface st/
                                                                                    /** Construct a person with default properties */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return '\n' + name.getFullName() + '\n' +
address.getFullAddress() + '\n';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           return name.compareTo(((Person) o).name);
                                                                                                                                                                         public Person(Name name, Address address) {
                                                                                                                                                                                                                                                                                                                                                                                                                                          public void setAddress(Address address) {
                      3 public class Person implements Comparable {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /** Override the toString method */
                                                                                                                                                                                                                                                                                                               public void setName(Name name) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                public int compareTo(Object o) {
                                                                                                                                                                                                                                                                                                                                                                            public Address getAddress() {
                                                                                                                                                                                                                                                                                                                                                                                                                                                       this.address = address;
                                                                                                                                                                                                   this.address = address;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      public String toString() {
                                                                                                                                                                                                                                                                                                                                                                                                                            /** Set a new address */
                                                            private Address address;
                                                                                                                                                                                                                                                   public Name getName() {
                                                                                                                                                                                      this.name = name;
                                                                                                                                                                                                                                                                                                    /** Set a new name */
                                                                                                                                                                                                                                                                                                                             this.name = name;
                                                                                                                                                                                                                                                                                                                                                                /** Return address */
                                                                                                                                                                                                                                                                                                                                                                                         return address;
                                                 private Name name;
                                                                                                                                                                                                                                       /** Return name */
                                                                                               public Person() {
                                                                                                                                                                                                                                                                return name;
1 package ex4;
```