```
package Program02;
import java.util.ArrayList;
public class Course {
    private ArrayList<Student> student; // 5..60
    private ArrayList<Faculty> faculty; // 0..2
    private String name;
    private int credit;
    private int indexOfStudent; //0
    private int indexOfFaculty; //0
    public Course() {
    }
    public Course(String name, int credit) {
        this.name = name;
        this.credit = credit;
        this.student = new ArrayList<Student>(); // composition
        this.faculty = new ArrayList<Faculty>();
    public void addStudent(Student student) {
        this.student.add(student);
        this.indexOfStudent++;
    public void addFaculy(Faculty faculty) {
        this.faculty.add(faculty);
        this.indexOfFaculty++;
    String displayStudent() {
        String s = "";
        for (int i = 0; i < student.size(); i++) {</pre>
            s += student.get(i).toString();
        return s;
    String displayFaculty() {
        String s = "";
        for (int i = 0; i < faculty.size(); i++) {</pre>
            s += faculty.get(i).toString();
            s += " ";
        }
        return s;
    public void dropStudent(String name){
        for(int i = 0; i < student.size(); i++){</pre>
```

```
if(name.equals(student.get(i).name)){
                student.remove(i);
    public void clear(){
        student.clear();
   @Override
    public String toString() {
        return "Course{" + "student=" + displayStudent() + ", faculty=" +
displayFaculty() + ", name=" + name + ", credit=" + credit + '}';
class Student {
   String name;
   int id;
    char gender;
    public Student(String name, int id, char gender) {
        this.name = name;
        this.id = id;
        this.gender = gender;
   @Override
    public String toString() {
       return "Student{" + "name=" + name + ", id=" + id + ", gender=" +
gender + '}';
    }
class Faculty {
   String name;
   String position;
    public Faculty(String name, String position) {
        this.name = name;
        this.position = position;
    @Override
   public String toString() {
        return "Faculty{" + "name=" + name + ", position=" + position + '}';
```

TestCourse

```
package Program02;

public class TestCourse {
    public static void main(String[] args) {
        Course c1 = new Course("OOP",1);
        Student s1 = new Student("Patipat", 1, 'm');
        Student s2 = new Student("Boonyawee",2,'f');
        Student s3 = new Student("Kumpanat",3,'m');
        c1.addStudent(s1);
        c1.addStudent(s2);
        c1.addStudent(s3);
        c1.dropStudent("Kumpanat");
        System.out.println(c1.displayStudent());
    }
}
```