# Object Oriented Programming Class Relation



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Processor.java package classrelationship.experiment1; public class Processor { private String brand; private double cache; public Processor() { public Processor(String brand, double cache) { 10 this.brand = brand; this.cache = cache; 12 } 13 14 public void setBrand(String brand) { 15 this.brand = brand; 16 } public String getBrand() { 19 return brand; } 21 public void setCache(double cache) { 23 this.cache = cache; } 25 public double getCache() { 27 return cache; } 29 30 public void info() { 31 System.out.printf("Merk Processor = %s\n", brand); System.out.printf("Cache Memory = %.2f\n", cache); 33 } 34 } 35

### Laptop.java package classrelationship.experiment1; public class Laptop { private String brand; private Processor processor; public Laptop() { public Laptop(String brand, Processor processor) { 10 this.brand = brand; this.processor = processor; 12 } 13 14 public void setBrand(String brand) { this.brand = brand; 16 } public void setProcessor(Processor processor) { 19 this.processor = processor; 20 } 21 public void info() { 23 System.out.println("Merk Laptop = " + brand); processor.info(); } } 27

```
MainExperiment1.java
   package classrelationship.experiment1;
   public class MainExperiment1 {
       public static void main(String[] args) {
           Processor processor = new Processor("Intel i5", 3);
           Laptop laptop = new Laptop("Thinkpad", processor);
           laptop.info();
           Processor p1 = new Processor();
10
           p1.setBrand("Intel i5");
           p1.setCache(4);
12
           Laptop 11 = new Laptop();
13
           11.setBrand("Thinkpad");
14
           11.setProcessor(p1);
           11.info();
16
       }
   }
18
   Terminal
  PS D:\Kuliah> & 'C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe'
       '-XX:+ShowCodeDetailsInExceptionMessages' '-cp'
       'C:\Users\G4CE-PC\AppData\Roaming\Code\User\workspaceStorage\
      80d97a47d24665dc0bce7ab1e048ecbd\redhat.java\jdt_ws\
       Kuliah_28156aa7\bin'
       'classrelationship.experiment1.MainExperiment1'
  Merk Laptop = Thinkpad
  Merk Processor = Intel i5
4 Cache Memory = 3.00
 Merk Laptop = Thinkpad
  Merk Processor = Intel i5
  Cache Memory = 4.00
```

### 1.1 Question

Berdasarkan percobaan 1, jawablah pertanyaan-pertanyaan yang terkait:

- 1. Di dalam class Processor dan class Laptop, terdapat method setter dan getter untuk masing-masing atributnya. Apakah gunanya method setter dan getter tersebut?
- 2. Di dalam *class* Processor dan *class* Laptop, masing-masing terdapat konstruktor default dan konstruktor berparameter. Bagaimanakah beda penggunaan dari kedua jenis konstruktor tersebut ?
- 3. Perhatikan *class* Laptop, di antara 2 atribut yang dimiliki (*merk* dan *proc*), atribut manakah yang bertipe *object*?
- 4. Perhatikan *class* Laptop, pada baris manakah yang menunjukan bahwa *class* Laptop memiliki relasi dengan *class* Processor?
- 5. Perhatikan pada class Laptop, Apakah guna dari sintaks proc.info()?
- 6. Pada class MainPercobaan1, terdapat baris kode:

```
Laptop 1 = new Laptop("Thinkpad", p);
Apakah p tersebut ?
Dan apakah yang terjadi jika baris kode tersebut diubah menjadi:
Laptop 1 = new Laptop("Thinkpad", new Processor("Intel i5", 3));
```

Bagaimanakah hasil program saat dijalankan, apakah ada perubahan?

- 1. To set or get a value that has to follow a certain rule (encapsulation) and to set a value when the default constructor is used.
- 2. Default constructor makes us declare the value of the object's attribute using the setter. The parametric constructor set the value accordingly in the instantiation of the object.
- 3. proc is the object attribute. The attribute derived from the Processor class.
- 4. The line where it state the attribute of class Laptop uses the Processor class as an object attribute. In my instance is in line 5 of the class Laptop.java.
- 5. It is used to call the method info() in the Laptop class which give description on the instance of said Laptop object.
- 6. The p is variable used to store the instance of the Processor object that has been instantiated. Nothing will change in the eyes of the users if that method of instantiation is used.

```
Car.java
   package classrelationship.experiment2;
   public class Car {
       private String brand;
       private int cost;
       public Car() {
       public void setBrand(String brand) {
10
            this.brand = brand;
12
13
       public String getBrand() {
14
            return brand;
16
       public void setCost(int cost) {
            this.cost = cost;
19
       }
20
       public int getCost() {
            return cost;
23
       }
25
       public int calculateCarCost(int day) {
           return cost * day;
       }
   }
29
```

#### Driver.java

```
package classrelationship.experiment2;
   public class Driver {
       private String name;
       private int cost;
       public Driver() {
       public void setName(String name) {
10
            this.name = name;
12
       public String getName() {
14
            return name;
16
       public void setCost(int cost) {
            this.cost = cost;
19
       }
20
21
       public int getCost() {
           return cost;
23
       }
24
25
       public int calculateDriverCost(int day) {
            return cost * day;
27
       }
   }
29
```

#### User.java package classrelationship.experiment2; public class User { private String name; private Car car; private Driver driver; private int day; public User() { } 10 public void setName(String name) { 12 this.name = name; } 14 public String getName() { 16 return name; } 18 19 public void setCar(Car car) { 20 this.car = car; $^{21}$ } 22 public Car getCar() { 24 return car; 25 } 26 public void setDriver(Driver driver) { this.driver = driver; 29 }

public Driver getDriver() {

public void setDay(int day) {

return driver;

this.day = day;

public int getDay() {

return day;

33

35

36

37

39

40

41

}

}

```
}
42
43
       public int calulateTotalCost() {
           return car.calculateCarCost(day) +
45
               driver.calculateDriverCost(day);
46
   }
47
   MainExperiment2.java
   package classrelationship.experiment2;
   public class MainExperiment2 {
       public static void main(String[] args) {
           Car car = new Car();
           car.setBrand("Avanza");
           car.setCost(350_000);
           Driver driver = new Driver();
           driver.setName("John Doe");
10
           driver.setCost(200_000);
12
           User user = new User();
           user.setName("Jane Doe");
14
           user.setCar(car);
           user.setDriver(driver);
16
           user.setDay(2);
18
           System.out.println("Total Cost = " +
              user.calulateTotalCost());
       }
20
   }
21
   Terminal
   PS D:\Kuliah> & 'C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe'
       '-XX:+ShowCodeDetailsInExceptionMessages' '-cp'
       'C:\Users\G4CE-PC\AppData\Roaming\Code\User\workspaceStorage\
       80d97a47d24665dc0bce7ab1e048ecbd\redhat.java\jdt_ws\
       Kuliah_28156aa7\bin'
       'classrelationship.experiment2.MainExperiment2'
  Total Cost = 1100000
```

10

### 2.1 Question

- 1. Perhatikan class Pelanggan. Pada baris program manakah yang menunjukan bahwa class Pelanggan memiliki relasi dengan class Mobil dan class Sopir?
- 2. Perhatikan method hitungBiayaSopir pada class Sopir, serta method hitungBiayaMobil pada class Mobil. Mengapa menurut Anda method tersebut harus memiliki argument hari?
- 3. Perhatikan kode dari class Pelanggan. Untuk apakah perintah mobil.hitungBiayaMobil(hari) dan sopir.hitungBiayaSopir(hari)?
- 4. Perhatikan class MainPercobaan2. Untuk apakah sintaks p.setMobil(m) dan p.setSopir(s)?
- 5. Perhatikan class MainPercobaan2. Untuk apakah proses p.hitungBiayaTotal() tersebut?
- 6. Perhatikan class MainPercobaan2, coba tambahkan pada baris terakhir dari method main dan amati perubahan saat di-run!

```
System.out.println(p.getMobil().getMerk());
```

Jadi untuk apakah sintaks p.getMobil().getMerk() yang ada di dalam method main tersebut?

- 1. On the line where it's declaring the attribute as an object of Car and Driver. In this case, line 5 and 6.
- 2. Because both class don't have and don't know how many day it will be. The day attribute is owned by the User class.
- 3. To get the calculation on the cost of the car rent and the driver fee.
- 4. To set the User attribute using the instantiated car object and driver object.
- 5. To get the sum of all cost for the user.
- 6. To get the brand name of the car used by the user.

```
Employee.java
   package classrelationship.experiment3;
   public class Employee {
       private String nip;
4
       private String name;
       public Employee(String nip, String name) {
            this.nip = nip;
            this.name = name;
       }
10
       public void setNip(String nip) {
12
            this.nip = nip;
       }
14
       public String getNip() {
16
            return nip;
       }
19
       public void setName(String name) {
20
            this.name = name;
       }
23
       public String getName() {
24
            return name;
25
       }
27
       public String info() {
            String info = "";
29
            info += "NIP: " + this.nip + "\n";
30
            info += "Name: " + this.name + "\n";
31
            return info;
       }
33
   }
34
```

```
Train.java
   package classrelationship.experiment3;
   public class Train {
       private String name;
       private String classification;
       private Employee conductor;
       private Employee assitant;
       public Train(String name, String classification, Employee
           conductor) {
            this.name = name;
            this.classification = classification;
11
            this.conductor = conductor;
       }
13
       public Train(String name, String classification, Employee
15
           conductor, Employee assistant) {
            this.name = name;
16
            this.classification = classification;
            this.conductor = conductor;
            this.assitant = assistant;
19
       }
20
       public void setName(String name) {
22
            this.name = name;
23
       }
25
       public String getName() {
26
           return name;
27
       }
29
       public void setClassification(String classification) {
            this.classification = classification;
31
       }
32
33
       public String getClassification() {
34
            return classification;
35
       }
36
37
       public void setConductor(Employee conductor) {
38
            this.conductor = conductor;
39
```

```
}
40
41
       public Employee getConductor() {
42
           return conductor;
43
       }
44
45
       public void setAssitant(Employee assitant) {
46
           this.assitant = assitant;
47
       }
48
49
       public Employee getAssitant() {
50
           return assitant;
51
       }
52
53
       public String info() {
54
           String info = "";
55
           info += "Name
                              : " + this.name + "\n";
56
           info += "Class
                              : " + this.classification + "\n";
           info += "Conductor: " + this.conductor.info() + "\n";
58
           info += "Assistant: " + this.assitant.info() + "\n";
           return info;
60
       }
   }
62
   MainExperiment3.java
   package classrelationship.experiment3;
   public class MainExperiment3 {
       public static void main(String[] args) {
           Employee conductor = new Employee("1234", "Spongebob
            Employee assistant = new Employee("4567", "Patrick Star");
           Train train = new Train("New Style", "Bussiness", conductor,
            → assistant);
           System.out.println(train.info());
       }
9
   }
10
```

#### Terminal

```
PS D:\Kuliah> & 'C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe'

- '-XX:+ShowCodeDetailsInExceptionMessages' '-cp'

- 'C:\Users\G4CE-PC\AppData\Roaming\Code\User\workspaceStorage\
- 80d97a47d24665dc0bce7ab1e048ecbd\redhat.java\jdt_ws\
- Kuliah_28156aa7\bin'
- 'classrelationship.experiment3.MainExperiment3'

Name : New Style
Class : Bussiness
Conductor: NIP: 1234
Name: Spongebob Squarepants

Assistant: NIP: 4567
Name: Patrick Star
```

#### 3.1 Question

- 1. Di dalam method info() pada class KeretaApi, baris this.masinis.info() dan this.asisten.info() digunakan untuk apa?
- 2. Buatlah main program baru dengan nama class MainPertanyaan pada package yang sama. Tambahkan kode berikut pada method main()!

```
Pegawai masinis = new Pegawai("1234", "Spongebob Squarepants");
KeretaApi keretaApi = new KeretaApi("Gaya Baru", "Bisnis",

— masinis);
System.out.println(keretaApi.info());
```

- 3. Apa hasil output dari main program tersebut? Mengapa hal tersebut dapat terjadi?
- 4. Perbaiki class KeretaApi sehingga program dapat berjalan!

- 1. To get the info of the object in a form of a String to be append in the info String of the Train info method.
- 2. MainQuestion.java

```
package classrelationship.experiment3;

public class MainQuestion {
    public static void main(String[] args) {
```

```
Employee conductor = new Employee("1234", "Spongebob
          Train train = new Train("New Style", "Bussiness",

    conductor);
          System.out.println(train.info());
      }
  }
3. Terminal
  PS D:\Kuliah> & 'C:\Program
      Files\Java\jdk-18.0.2.1\bin\java.exe'
      '-XX:+ShowCodeDetailsInExceptionMessages' '-cp'
      'C:\Users\G4CE-PC\AppData\Roaming\Code\User\
    workspaceStorage\80d97a47d24665dc0bce7ab1e048ecbd\

→ redhat.java\jdt_ws\Kuliah_28156aa7\bin'

      'classrelationship.experiment3.MainQuestion'
  Exception in thread "main" java.lang.NullPointerException: Cannot
  → invoke "classrelationship.experiment3.Employee.info()"

→ because "this.assitant" is null

      at classrelationship.experiment3.Train.info (Train.java:59)
      at classrelationship.experiment3.MainQuestion.main
          (MainQuestion.java:7)
```

Because on the Train info() method it also ask for the data of the assistant which is nonexistance in this instance.

```
4. part of Train.java
```

```
public String info() {
    String info = "";
    info += "Name : " + this.name + "\n";
    info += "Class : " + this.classification + "\n";
    info += "Conductor: " + this.conductor.info() + "\n";
    if (assitant != null) {
        info += "Assistant: " + this.assitant.info() + "\n";
    }
    return info;
}
```

One way to make it work is to only print assistant info if assistant is not null in the info method

Passenger.java package classrelationship.experiment4; public class Passenger { private String IDCard; private String name; public Passenger(String IDCard, String name) { this.IDCard = IDCard; this.name = name; } 10 public void setIDCard(String iDCard) { 12 IDCard = iDCard; } 14 public String getIDCard() { 16 return IDCard; 18 public void setName(String name) { 20 this.name = name; 22 public String getName() { 24 return name; 25 26 public String info() { 28 String info = ""; 29 info += String.format("ID Card: %s %n", IDCard); 30 info += String.format("Name: %s %n", name); 31 return info; } 33 } 34 Seat.java package classrelationship.experiment4; public class Seat {

```
private String seatNumber;
       private Passenger passenger;
       public Seat(String seatNumber) {
            this.seatNumber = seatNumber;
       }
10
       public void setSeatNumber(String seatNumber) {
11
            this.seatNumber = seatNumber;
12
       }
13
       public String getSeatNumber() {
15
           return seatNumber;
16
       public void setPassenger(Passenger passenger) {
            this.passenger = passenger;
20
       }
22
       public Passenger getPassenger() {
           return passenger;
24
       }
26
       public String info() {
27
            String info = "";
            info += String.format("Seat Number: %s %n", seatNumber);
            if (this.passenger != null) {
30
                info += String.format("Passenger: %s %n", passenger);
31
            }
32
           return info;
33
       }
34
35
   Carriage.java
   package classrelationship.experiment4;
   public class Carriage {
       private String code;
       private Seat[] seats;
       private void initSeat() {
            for (int i = 0; i < seats.length; i++) {</pre>
```

```
this.seats[i] = new Seat(String.valueOf(i + 1));
           }
10
       }
12
       public Carriage(String code, int amount) {
            this.code = code;
           this.seats = new Seat[amount];
            this.initSeat();
16
       }
17
       public void setCode(String code) {
19
            this.code = code;
21
       public String getCode() {
23
           return code;
25
       public void setPassenger(Passenger passenger, int number) {
27
            this.seats[number-1].setPassenger(passenger);
       }
29
       public Seat[] getSeats() {
31
            return seats;
32
       }
33
       public String info() {
35
           String info = "";
36
            info += String.format("Code: %s %n", code);
            for (Seat seat : seats) {
                info += seat.info();
39
            }
40
            return info;
41
       }
42
   }
43
   MainExperiment4.java
   package classrelationship.experiment4;
   public class MainExperiment4 {
       public static void main(String[] args) {
           Passenger p = new Passenger("12345", "Mr. Krab");
```

```
Carriage carriage = new Carriage("A", 10);
           carriage.setPassenger(p, 1);
           System.out.println(carriage.info());
       }
  }
10
   Terminal
  PS D:\Kuliah > d:; cd 'd:\Kuliah'; & 'C:\Program
       Files\Java\jdk-18.0.2.1\bin\java.exe'
       '-XX:+ShowCodeDetailsInExceptionMessages' '-cp'
       'C:\Users\G4CE-PC\AppData\Roaming\Code\User\workspaceStorage\
       80d97a47d24665dc0bce7ab1e048ecbd\redhat.java\jdt_ws\
       Kuliah_28156aa7\bin'
       'classrelationship.experiment4.MainExperiment4'
  Code: A
  Seat Number: 1
  Passenger: ID Card: 12345
  Name: Mr. Krab
  Seat Number: 2
  Seat Number: 3
9 Seat Number: 4
10 Seat Number: 5
11 Seat Number: 6
12 Seat Number: 7
Seat Number: 8
 Seat Number: 9
  Seat Number: 10
```

### 4.1 Question

- 1. Pada main program dalam class MainPercobaan4, berapakah jumlah kursi dalam Gerbong A?
- 2. Perhatikan potongan kode pada method info() dalam class Kursi. Apa maksud kode tersebut ?

```
if (this.penumpang != null) {
   info += "Penumpang: " + penumpang.info() + "\n";
}
...
```

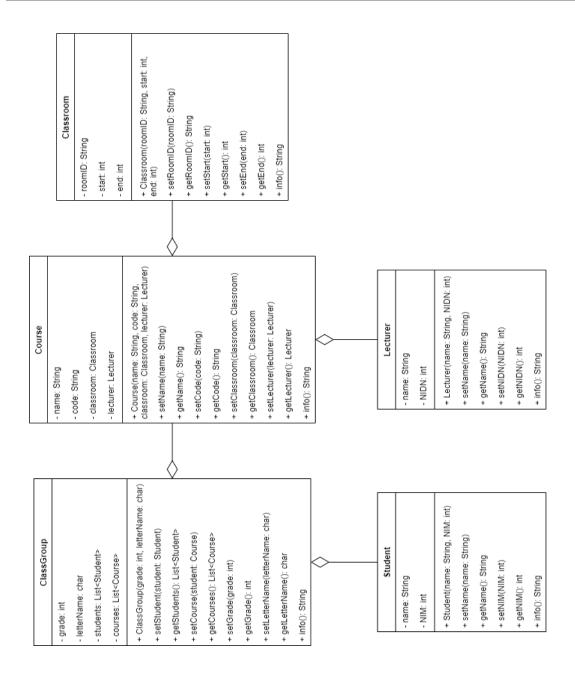
- 3. Mengapa pada method setPenumpang() dalam class Gerbong, nilai nomor dikurangi dengan angka 1?
- 4. Instansiasi objek baru budi dengan tipe Penumpang, kemudian masukkan objek baru tersebut pada gerbong dengan gerbong.setPenumpang(budi, 1). Apakah yang terjadi?
- 5. Modifikasi program sehingga tidak diperkenankan untuk menduduki kursi yang sudah ada penumpang lain!

- 1. There are 10 seats in the carriage.
- 2. If the passenger variable is not null add passenger info into variable info
- 3. Because array index start at 0 and to adjust with the size of the array with the index, when we enter the index we decrease the number by 1.
- 4. Mr. Krab is replaced with budi.
- 5. -

```
public void setPassenger(Passenger passenger, int number) {
   if (seats[number-1] == null) {
      this.seats[number-1].setPassenger(passenger);
   } else {
      System.out.println("Seat is occupied");
   }
}
```

## 5 Assignment

Berdasarkan latihan di pertemuan teori, rancang dengan class diagram, kemudian implementasikan ke dalam program! Studi kasus harus mewakili relasi class dari percobaan-percobaan yang telah dilakukan pada materi ini, setidaknya melibatkan minimal 4 class (class yang berisi main tidak dihitung).



## Lecturer.java package classrelationship.assignment; public class Lecturer { private String name; private String NIDN; public Lecturer(String name, String NIDN) { this.name = name; this.NIDN = NIDN; } public void setName(String name) { this.name = name; public String getName() { return name; public void setNIDN(String NIDN) { this.NIDN = NIDN; } public String getNIDN() { return NIDN; }

info += String.format("Name: %s %n", getName());
info += String.format("NIDN: %s %n", getNIDN());

10

12

14

16

17 18

20

21

23

25

27

29

31

32

34 }

Student.java

public String info() {
 String info = "";

return info;

public class Student {

private String name; private String NIM;

package classrelationship.assignment;

```
public Student(String name, String NIM) {
            this.name = name;
            this.NIM = NIM;
       }
10
       public void setName(String name) {
12
            this.name = name;
13
       }
14
15
       public String getName() {
16
            return name;
       }
18
       public void setNIM(String NIM) {
20
            this.NIM = NIM;
22
       public String getNIM() {
24
            return NIM;
26
       public String info() {
28
            String info = "";
29
            info += String.format("Name: %s %n", name);
30
            info += String.format("NIM : %s %n", NIM);
31
            return info;
32
       }
33
   }
34
   Classroom.java
   package classrelationship.assignment;
   public class Classroom {
       private String roomID;
       private int start;
       private int end;
       public Classroom(String roomID, int start, int end) {
            this.roomID = roomID;
            this.start = start;
10
            this.end = end;
11
```

```
}
12
13
       public void setRoomID(String roomID) {
            this.roomID = roomID;
       }
16
       public String getRoomID() {
            return roomID;
19
       }
20
21
       public void setStart(int start) {
22
            this.start = start;
       }
24
       public int getStart() {
26
            return start;
28
       public void setEnd(int end) {
30
            this.end = end;
32
       public int getEnd() {
34
            return end;
35
       }
36
       public String info() {
38
            String info = "";
39
            info += String.format("Room ID: %s %n", roomID);
            info += String.format("Session: %d - %d %n", start, end);
41
            return info;
       }
43
   }
44
   Course.java
   package classrelationship.assignment;
   public class Course {
       private String name;
       private String code;
       private Classroom classroom;
       private Lecturer lecturer;
```

```
public Course(String name, String code, Classroom classroom,
          Lecturer lecturer) {
           this.name = name;
10
           this.code = code;
           this.classroom = classroom;
           this.lecturer = lecturer;
       }
14
       public void setName(String name) {
16
            this.name = name;
       }
19
       public String getName() {
20
           return name;
       }
23
       public void setCode(String code) {
           this.code = code;
25
       }
       public String getCode() {
           return code;
29
       }
30
       public void setClassroom(Classroom classroom) {
32
            this.classroom = classroom;
33
       }
34
35
       public Classroom getClassroom() {
36
           return classroom;
       }
38
       public void setLecturer(Lecturer lecturer) {
40
           this.lecturer = lecturer;
       }
42
       public Lecturer getLecturer() {
44
           return lecturer;
       }
46
       public String info() {
48
```

```
String info = "";
           info += String.format("Course Name: %s %n", name);
50
           info += String.format("Course Code: %s %n", code);
           info += String.format("Classroom : %n%s", classroom.info());
52
           info += String.format("Lecturer
                                              : %n%s", lecturer.info());
           return info;
       }
   }
56
   ClassGroup.java
   package classrelationship.assignment;
   import java.util.ArrayList;
   import java.util.List;
   public class ClassGroup {
       private int grade;
       private char letterName;
       private List<Student> students = new ArrayList<Student>();
       private List<Course> courses = new ArrayList<Course>();
       public ClassGroup(int grade, char letterName) {
           this.grade = grade;
13
           this.letterName = letterName;
       }
15
       public void setGrade(int grade) {
17
           this.grade = grade;
       }
19
       public int getGrade() {
21
           return grade;
       }
24
       public void setLetterName(char letterName) {
           this.letterName = letterName;
26
       }
       public char getLetterName() {
           return letterName;
30
31
32
```

```
public void setStudent(Student students) {
           this.students.add(students);
34
       }
36
       public List<Student> getStudents() {
37
           return students;
       }
40
       public void setCourse(Course course) {
41
           this.courses.add(course);
42
       }
43
       public List<Course> getCourses() {
45
           return courses;
46
       }
47
       public String info() {
49
           String info = "";
           info += String.format("Class
                                                 : %d%c %n", grade,
51
            → letterName);
           info += String.format("Student List: %n");
52
           for (Student student : students) {
                info += student.info();
54
           }
           info += String.format("Course List : %n");
56
           for (Course course : courses) {
                info += course.info();
58
           }
59
           return info;
       }
61
   }
62
   MainAssignment.java
   package classrelationship.assignment;
   public class MainAssignment {
       public static void main(String[] args) {
           ClassGroup internationalClassGroup = new ClassGroup(2, 'I');
           internationalClassGroup.setStudent(new Student("Alpha",
               "2241720001"));
           internationalClassGroup.setStudent(new Student("Beta",
               "2241720002"));
```

```
internationalClassGroup.setStudent(new Student("Charlie",
               "2241720003"));
           internationalClassGroup.setStudent(new Student("Delta",
               "2241720004"));
           internationalClassGroup.setStudent(new Student("Echo",
10
               "2241720005"));
           internationalClassGroup.setStudent(new Student("Foxtrot",
               "2241720006"));
12
           Lecturer lecturer = new Lecturer("Vipkas Al Hadid Firdaus,
13
           → S.T., M.T.", "0005059104");
           Classroom LSI2 = new Classroom("LSI2_6T", 8, 11);
14
           Course OOP = new Course("Object Oriented Programming",
15
              "RTI223007", LSI2, lecturer);
           internationalClassGroup.setCourse(00P);
16
           Classroom LERP = new Classroom("LERP_7T", 8, 11);
           Course PracticumOOP = new Course("Practicum Object Oriented
            → Programming", "RTI223008", LERP, lecturer);
           internationalClassGroup.setCourse(PracticumOOP);
21
           System.out.println(internationalClassGroup.info());
       }
23
   }
24
   Terminal
  PS D:\Kuliah > d:; cd 'd:\Kuliah'; & 'C:\Program
       Files\Java\jdk-18.0.2.1\bin\java.exe'
       '-XX:+ShowCodeDetailsInExceptionMessages' '-cp'
       'C:\Users\G4CE-PC\AppData\Roaming\Code\User\workspaceStorage\
       80d97a47d24665dc0bce7ab1e048ecbd\redhat.java\jdt_ws\
       Kuliah_28156aa7\bin' 'classrelationship.assignment.MainAssignment'
  Class
               : 2I
  Student List:
  Name: Alpha
  NIM: 2241720001
  Name: Beta
  NIM: 2241720002
  Name: Charlie
  NIM: 2241720003
 Name: Delta
  NIM: 2241720004
```

- Name: Echo
- 13 NIM : 2241720005
- 14 Name: Foxtrot
- 15 NIM: 2241720006
- Course List :
- 17 Course Name: Object Oriented Programming
- 18 Course Code: RTI223007
- 19 Classroom :
- 20 Room ID: LSI2\_6T
- 21 Session: 8 11
- 22 Lecturer
- Name: Vipkas Al Hadid Firdaus, S.T., M.T.
- 24 NIDN: 0005059104
- 25 Course Name: Practicum Object Oriented Programming
- 26 Course Code: RTI223008
- 27 Classroom :
- 28 Room ID: LERP\_7T
- 29 Session: 8 11
- 30 Lecturer
- Name: Vipkas Al Hadid Firdaus, S.T., M.T.
- 32 NIDN: 0005059104