

ACTIVITY PERTEMUAN 2

NAMA : Fizri Rosdiansyah

NPM : 50421535

KELAS : 4IA06

MATERI : anatomi class,struktru navigasi java,dan OOP dengan Java

MATA PRAKTIKUM : Rekayasa Perangkat Lunak 2

Soal

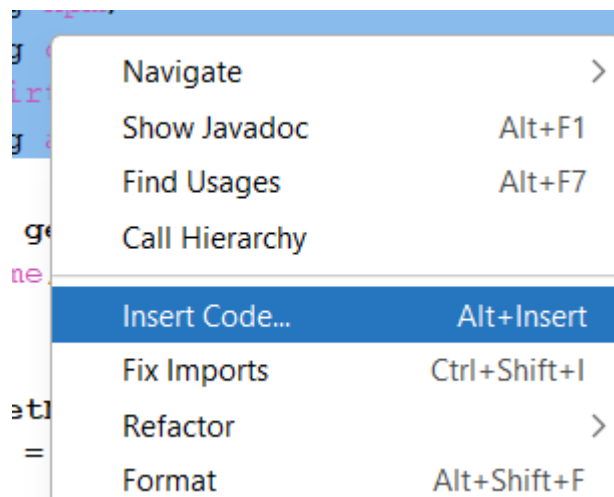
1. Jelaskan bagaimana cara membuat getter dan setter method pada netbeans IDE
2. Screenshot hasil codingan kalian lengkap dengan windows projects,navigator, dan outputnya

Jawab

- 1.drag Class yang ingin dijadikan Setter dan getter

```
public class Student {  
    private String name;  
    private String npm;  
    private String classNumber;  
    private int birthYear;  
    private String alamat;
```

Insert Code

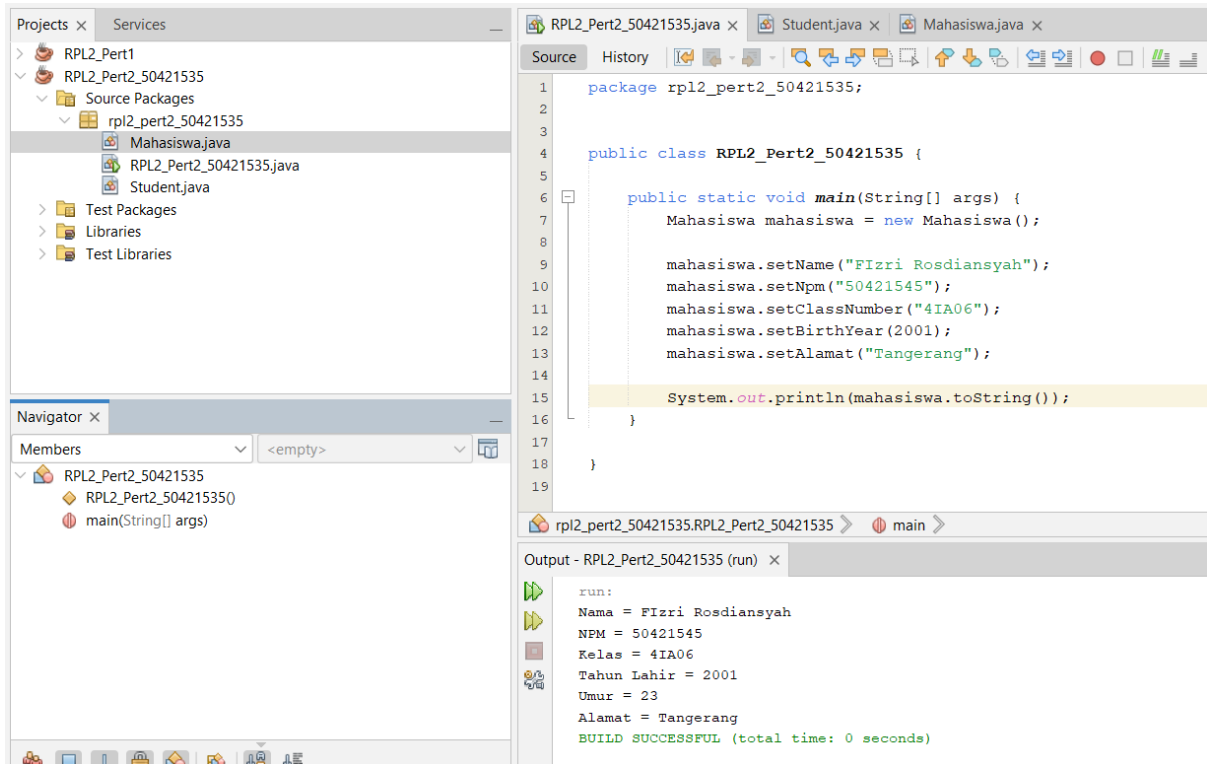


Lalu pilih Setter and getter

Select All dan Generate

2.

A.RPL2



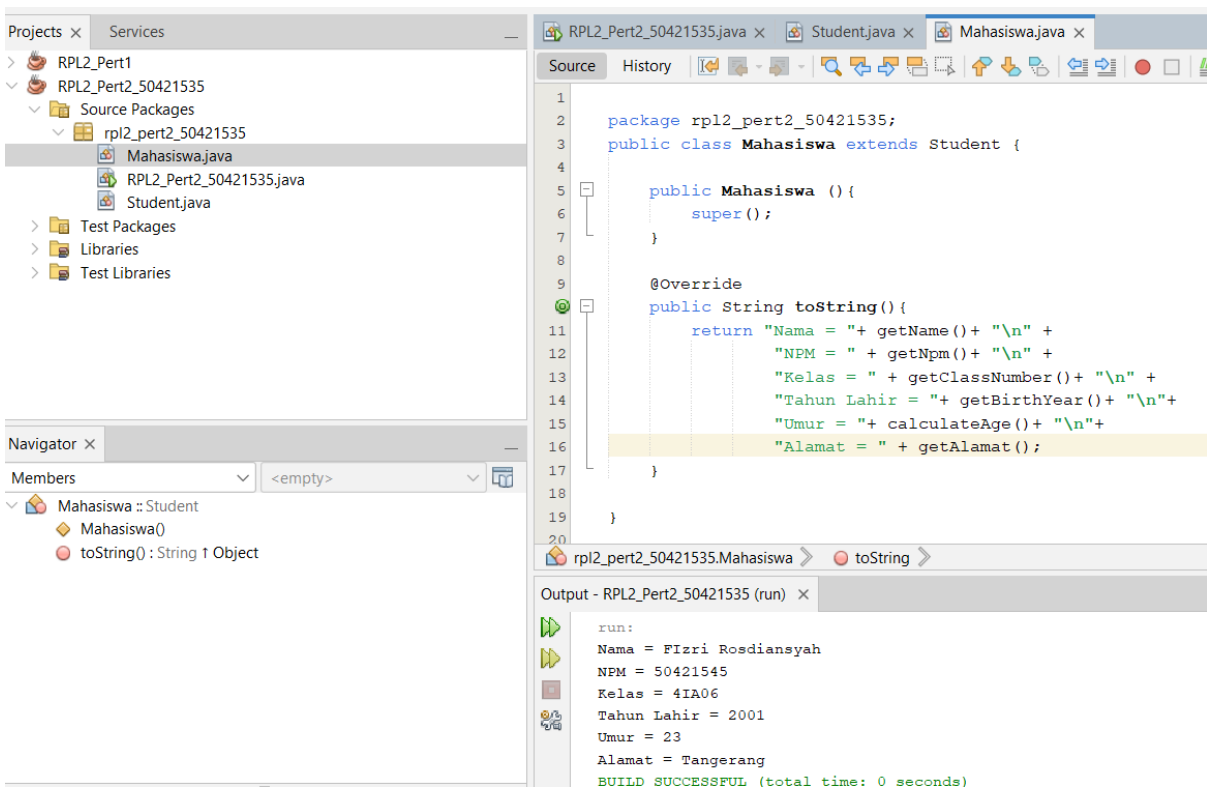
The screenshot shows an IDE with the following components:

- Projects:** RPL2_Pert1, RPL2_Pert2_50421535 (expanded to show Source Packages, rpl2_pert2_50421535, Mahasiswa.java, RPL2_Pert2_50421535.java, Student.java, Test Packages, Libraries, Test Libraries).
- Navigator:** RPL2_Pert2_50421535 (expanded to show RPL2_Pert2_50421535(), main(String[] args)).
- Source:** RPL2_Pert2_50421535.java (lines 1-19):

```
1 package rpl2_pert2_50421535;
2
3
4 public class RPL2_Pert2_50421535 {
5
6     public static void main(String[] args) {
7         Mahasiswa mahasiswa = new Mahasiswa();
8
9         mahasiswa.setName("Fizri Rosdiansyah");
10        mahasiswa.setNpm("50421545");
11        mahasiswa.setClassNumber("4IA06");
12        mahasiswa.setBirthYear(2001);
13        mahasiswa.setAlamat("Tangerang");
14
15        System.out.println(mahasiswa.toString());
16    }
17
18 }
19
```
- Output - RPL2_Pert2_50421535 (run):**

```
run:
Nama = Fizri Rosdiansyah
NPM = 50421545
Kelas = 4IA06
Tahun Lahir = 2001
Umur = 23
Alamat = Tangerang
BUILD SUCCESSFUL (total time: 0 seconds)
```

B.Mahasiswa



The screenshot shows an IDE with the following components:

- Projects:** RPL2_Pert1, RPL2_Pert2_50421535 (expanded to show Source Packages, rpl2_pert2_50421535, Mahasiswa.java, RPL2_Pert2_50421535.java, Student.java, Test Packages, Libraries, Test Libraries).
- Navigator:** Mahasiswa :: Student (expanded to show Mahasiswa(), toString(): String 1 Object).
- Source:** RPL2_Pert2_50421535.Mahasiswa (lines 1-20):

```
1 package rpl2_pert2_50421535;
2
3 public class Mahasiswa extends Student {
4
5     public Mahasiswa () {
6         super();
7     }
8
9     @Override
10    public String toString(){
11        return "Nama = " + getName() + "\n" +
12               "NPM = " + getNpm() + "\n" +
13               "Kelas = " + getClassNumber() + "\n" +
14               "Tahun Lahir = " + getBirthYear() + "\n" +
15               "Umur = " + calculateAge() + "\n" +
16               "Alamat = " + getAlamat();
17    }
18
19 }
20
```
- Output - RPL2_Pert2_50421535 (run):**

```
run:
Nama = Fizri Rosdiansyah
NPM = 50421545
Kelas = 4IA06
Tahun Lahir = 2001
Umur = 23
Alamat = Tangerang
BUILD SUCCESSFUL (total time: 0 seconds)
```

C.Student

Projects | **Services**

- RPL2_Pert1
 - RPL2_Pert2_50421535
 - Source Packages
 - rpl2_pert2_50421535
 - Mahasiswa.java
 - RPL2_Pert2_50421535.java
 - Student.java
 - Test Packages
 - Libraries
 - Test Libraries

Navigator

Members | <empty>

- Student
 - Student()
 - calculateAge() : int
 - getAlamat() : String
 - getBirthYear() : int
 - getClassNumber() : String
 - getName() : String
 - getNpm() : String
 - setAlamat(String alamat)
 - setBirthYear(int birthYear)
 - setClassNumber(String classNumber)
 - setName(String name)

Source | **History**

```
1 package rpl2_pert2_50421535;
2 import java.time.*;
3
4
5 public class Student {
6     private String name;
7     private String npm;
8     private String classNumber;
9     private int birthYear;
10    private String alamat;
11
12    public String getName() {
13        return name;
14    }
15
16    public void setName(String name) {
17        this.name = name;
18    }
19
20    public String getNpm() {
21        return npm;
22    }
23 }
```

Output - RPL2_Pert2_50421535 (run)

```
run:
Nama = FIZRI Rosdiansyah
NPM = 50421545
Kelas = 4IA06
Tahun Lahir = 2001
Umur = 23
Alamat = Tangerang
BUILD SUCCESSFUL (total time: 0 seconds)
```

Projects | **Services**

- RPL2_Pert1
 - RPL2_Pert2_50421535
 - Source Packages
 - rpl2_pert2_50421535
 - Mahasiswa.java
 - RPL2_Pert2_50421535.java
 - Student.java
 - Test Packages
 - Libraries
 - Test Libraries

Navigator

Members | <empty>

- Student
 - Student()
 - calculateAge() : int
 - getAlamat() : String
 - getBirthYear() : int
 - getClassNumber() : String
 - getName() : String
 - getNpm() : String
 - setAlamat(String alamat)
 - setBirthYear(int birthYear)
 - setClassNumber(String classNumber)
 - setName(String name)

Source | **History**

```
13 }
14
15 public void setName(String name) {
16     this.name = name;
17 }
18
19 public String getNpm() {
20     return npm;
21 }
22
23 public void setNpm(String npm) {
24     this.npm = npm;
25 }
26
27 public String getClassNumber() {
28     return classNumber;
29 }
30
31 public void setClassNumber(String classNumber) {
32     this.classNumber = classNumber;
33 }
```

Output - RPL2_Pert2_50421535 (run)

```
run:
Nama = FIZRI Rosdiansyah
NPM = 50421545
Kelas = 4IA06
Tahun Lahir = 2001
Umur = 23
Alamat = Tangerang
BUILD SUCCESSFUL (total time: 0 seconds)
```

Projects x Services

- RPL2_Pert1
 - RPL2_Pert2_50421535
 - Source Packages
 - rpl2_pert2_50421535
 - Mahasiswa.java
 - RPL2_Pert2_50421535.java
 - Student.java
 - Test Packages
 - Libraries
 - Test Libraries

Navigator x

Members

Student

- Student()
- calculateAge() : int
- getAlamat() : String
- getBirthYear() : int
- getClassNumber() : String
- getName() : String
- getNpm() : String
- setAlamat(String alamat)
- setBirthYear(int birthYear)
- setClassNumber(String classNumber)
- setName(String name)

Source History

```
31 public void setClassNumber(String classNumber) {
32     this.classNumber = classNumber;
33 }
34
35 public int getBirthYear() {
36     return birthYear;
37 }
38
39 public void setBirthYear(int birthYear) {
40     this.birthYear = birthYear;
41 }
42
43 public String getAlamat() {
44     return alamat;
45 }
46
47 public void setAlamat(String alamat) {
48     this.alamat = alamat;
49 }
50
```

Output - RPL2_Pert2_50421535 (run) x

```
run:
Nama = FIZRI Rosdiansyah
NPM = 50421545
Kelas = 4IA06
Tahun Lahir = 2001
Umur = 23
Alamat = Tangerang
BUILD SUCCESSFUL (total time: 0 seconds)
```

Projects x Services

- RPL2_Pert1
 - RPL2_Pert2_50421535
 - Source Packages
 - rpl2_pert2_50421535
 - Mahasiswa.java
 - RPL2_Pert2_50421535.java
 - Student.java
 - Test Packages
 - Libraries
 - Test Libraries

Navigator x

Members

Student

- Student()
- calculateAge() : int
- getAlamat() : String
- getBirthYear() : int
- getClassNumber() : String
- getName() : String
- getNpm() : String
- setAlamat(String alamat)
- setBirthYear(int birthYear)
- setClassNumber(String classNumber)
- setName(String name)

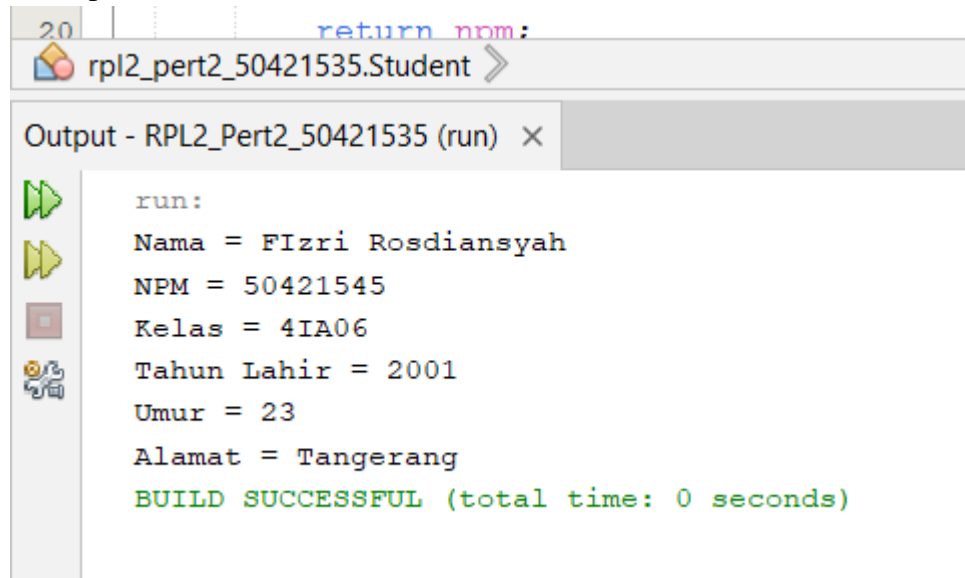
Source History

```
49 }
50
51 public Student() {
52     this.name = "";
53     this.npm = "";
54     this.classNumber = "";
55     this.birthYear = 0;
56     this.alamat = "";
57 }
58
59
60 public int calculateAge() {
61     int currentYear = Year.now().getValue();
62     int x = currentYear - birthYear;
63     return x;
64 }
65
66 }
67
```

Output - RPL2_Pert2_50421535 (run) x

```
run:
Nama = FIZRI Rosdiansyah
NPM = 50421545
Kelas = 4IA06
Tahun Lahir = 2001
Umur = 23
Alamat = Tangerang
BUILD SUCCESSFUL (total time: 0 seconds)
```

D.Output



The screenshot shows a code editor window with a file named `rpl2_pert2_50421535.Student`. The code defines a `Student` struct and a `run` function that prints student details. The output window shows the execution results, including the student's name, NPM, class, birth year, age, and address, followed by a successful build message.

```
20 | ... | return nom;
```

Output - RPL2_Pert2_50421535 (run) ×

```
run:
Nama = FIZRI Rosdiansyah
NPM = 50421545
Kelas = 4IA06
Tahun Lahir = 2001
Umur = 23
Alamat = Tangerang
BUILD SUCCESSFUL (total time: 0 seconds)
```