

# PUPUT DEBBYLA WALZAHRA

51421182\_4IA06

Rekayasa Perangkat Lunak 2

Anatomi Class, Struktur Aplikasi JAVA, Object Oriented Programming (OOP) Dengan Java

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1. Jelaskan bagaimana cara membuat Getters and Setter method pada Netbeans IDE

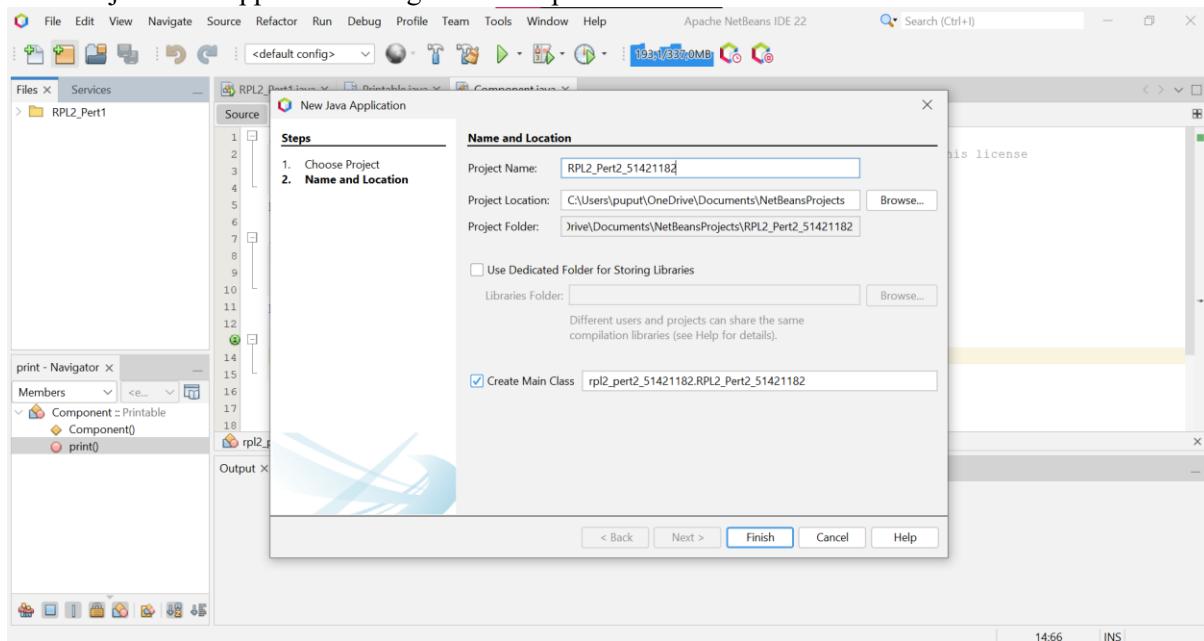
Jawab:

1. **Buka kelas Java** yang ingin kamu tambahkan Getters dan Setters.
2. **Letakkan kursor** di dalam kelas tersebut.
3. **Tekan Alt + Insert** pada keyboard (atau Ctrl + i di Mac).
4. **Pilih “Getter and Setter”** dari menu yang muncul.
5. **Pilih atribut** yang ingin kamu buatkan Getters dan Setters.
6. **Klik “Generate”**.

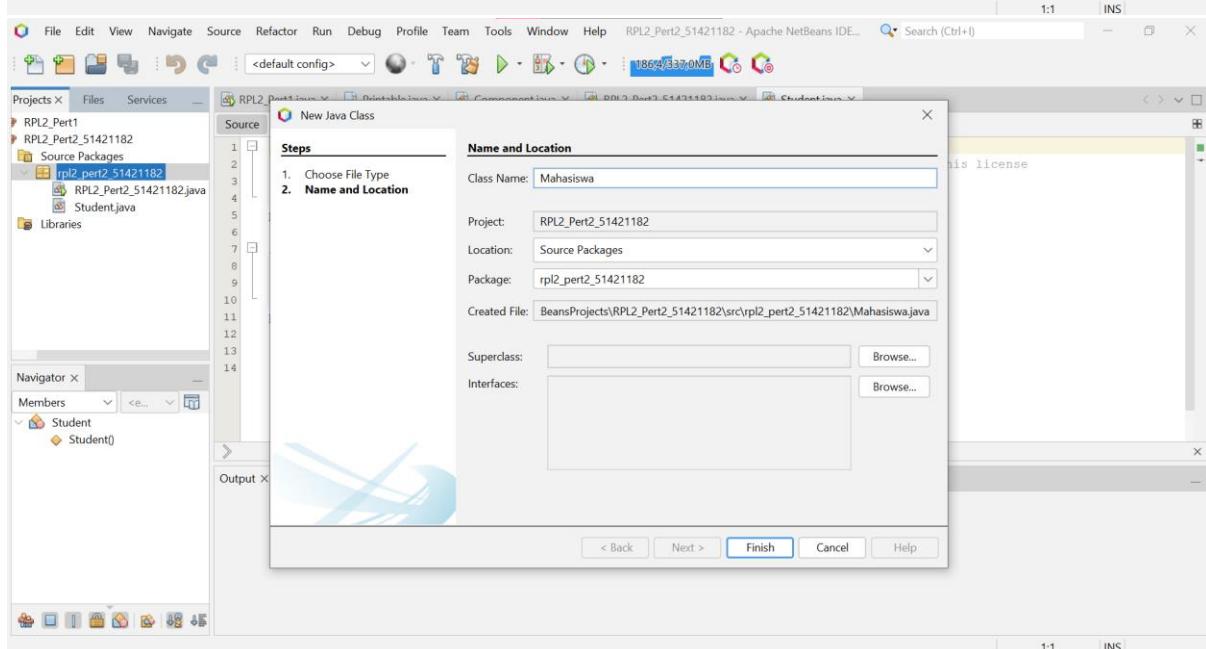
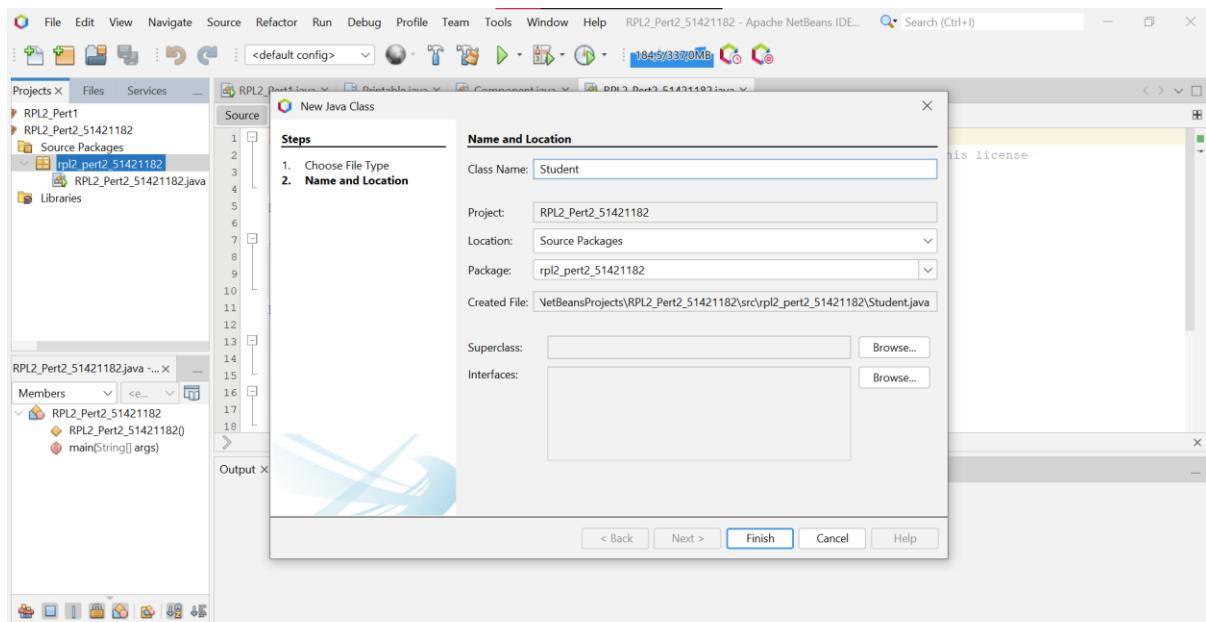
Maka hasil dari Getters and Setters akan langsung dapat dilihat pada class.

2. Hasil codingan pertemuan 2 dibawah ini!

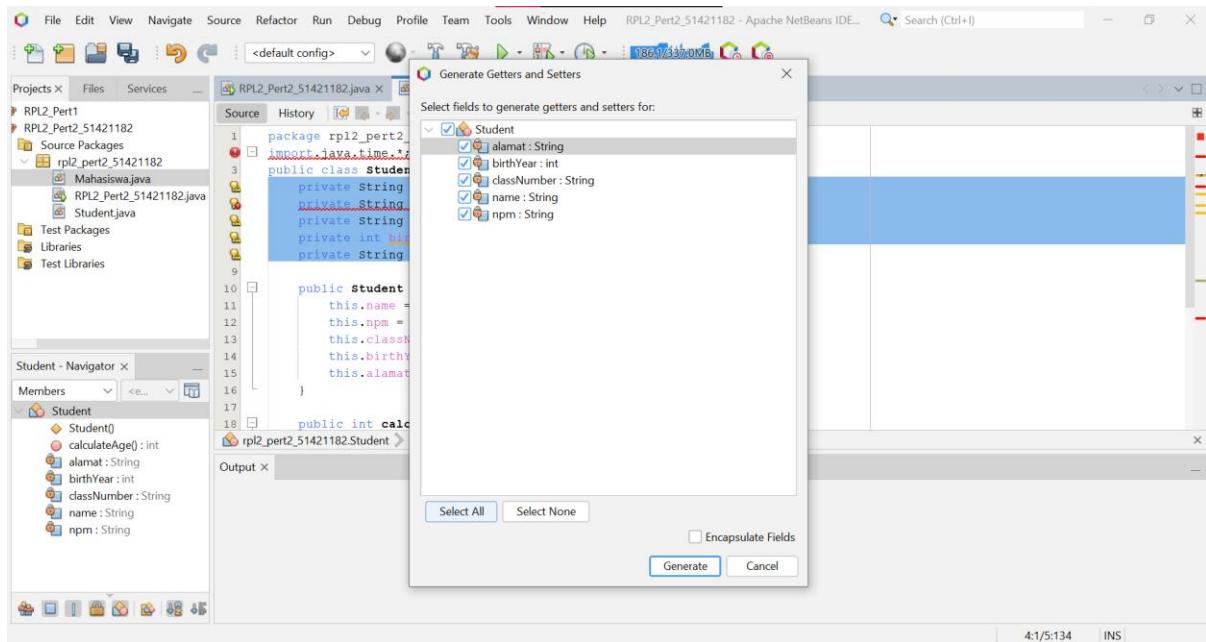
Buat Project Java Application dengan nama seperti berikut



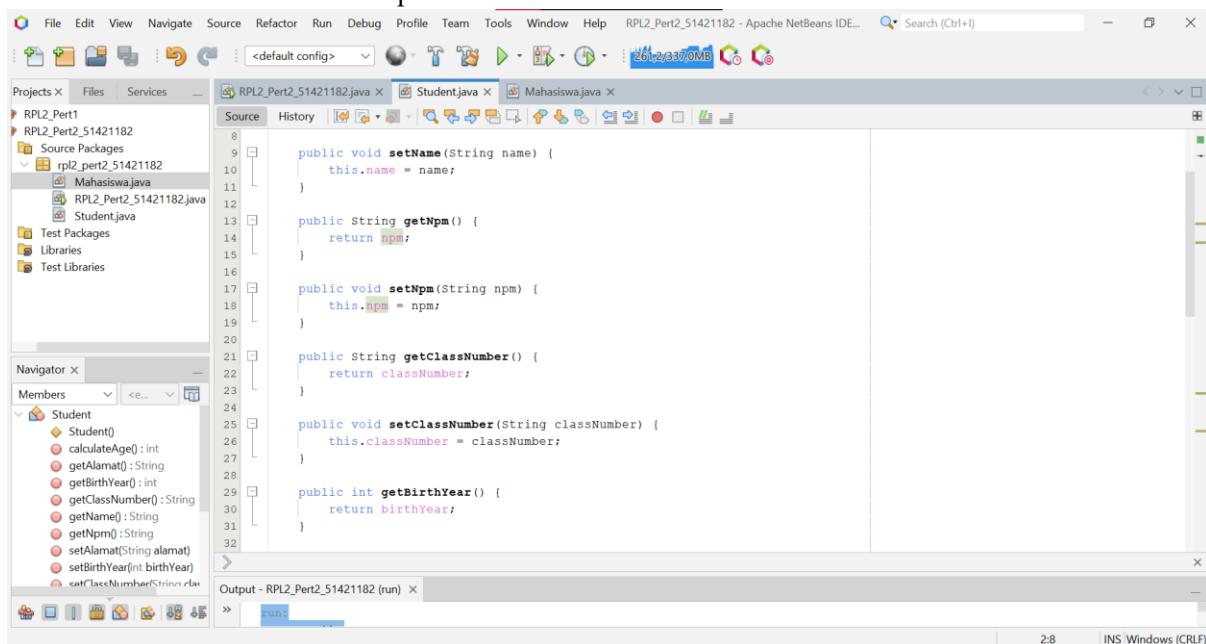
Buat class baru di Java Class dengan nama seperti berikut



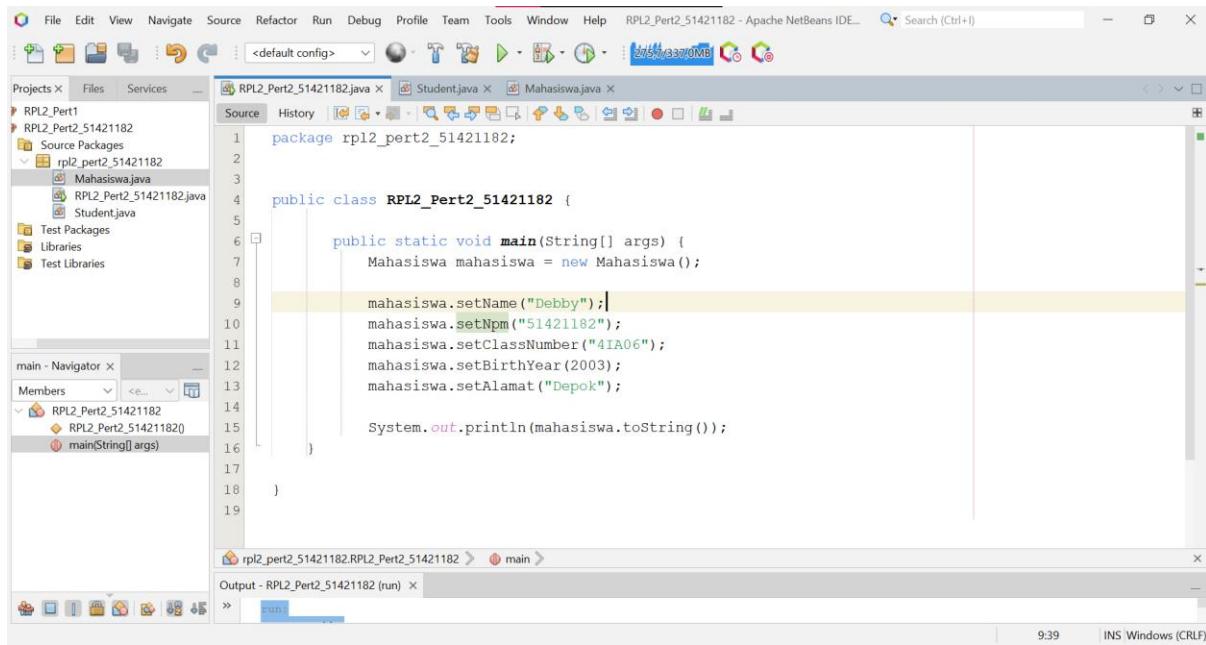
Buat codingan menjadi Getters and Setters lalu pilih select all dan klik Generate



Maka hasil Getters and Setters seperti berikut ini



Berikut codingan dari Main project



```
package rpl2_pert2_51421182;

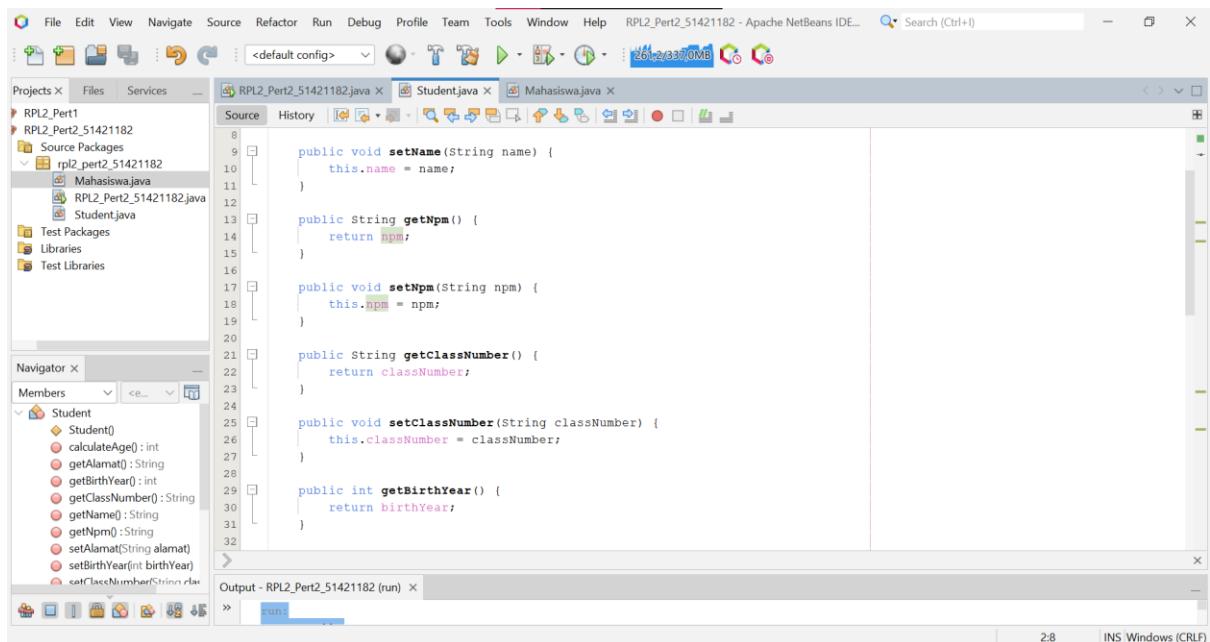
public class RPL2_Pert2_51421182 {

    public static void main(String[] args) {
        Mahasiswa mahasiswa = new Mahasiswa();

        mahasiswa.setName("Debby");
        mahasiswa.setNpm("51421182");
        mahasiswa.setClassNumber("4IA06");
        mahasiswa.setBirthYear(2003);
        mahasiswa.setAlamat("Depok");

        System.out.println(mahasiswa.toString());
    }
}
```

Coding dari Student



```
package rpl2_pert2_51421182;
import.java.time.*;
public class Student {

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getNpm() {
        return npm;
    }

    public void setNpm(String npm) {
        this.npm = npm;
    }

    public String getClassNumber() {
        return classNumber;
    }

    public void setClassNumber(String classNumber) {
        this.classNumber = classNumber;
    }

    public int getBirthYear() {
        return birthYear;
    }

    public void setBirthYear(int birthYear) {
        this.birthYear = birthYear;
    }

    public String getAlamat() {
        return alamat;
    }
}
```

```

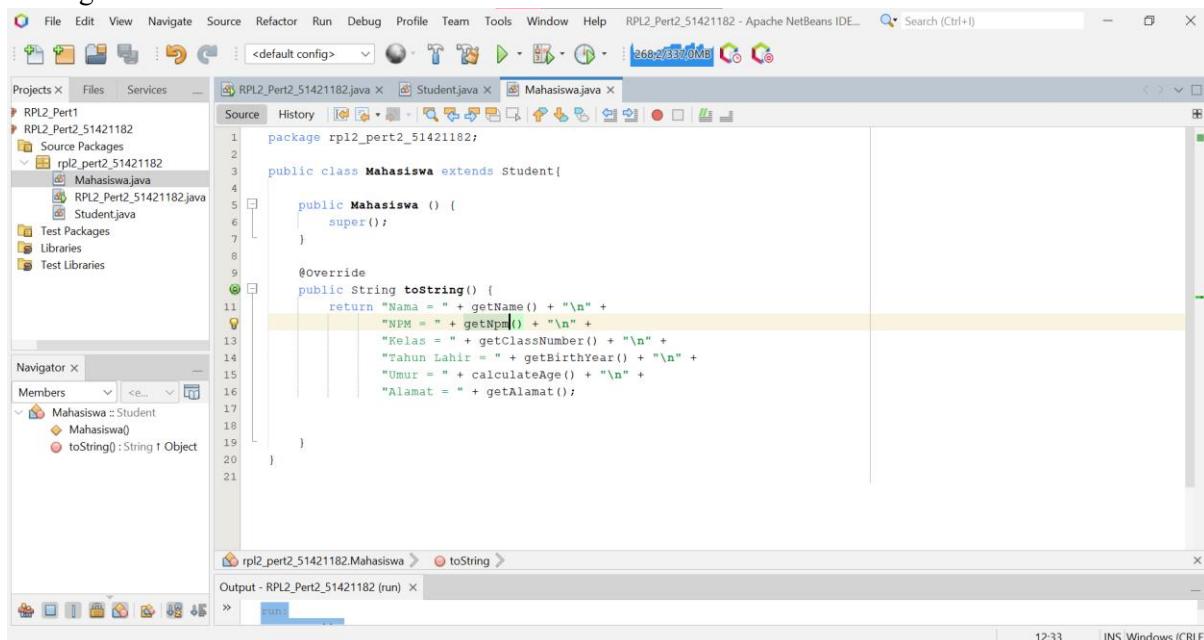
public void setAlamat(String alamat) {
    this.alamat = alamat;
}
private String name;
private String npm;
private String classNumber;
private int birthYear;
private String alamat;

public Student () {
    this.name = "";
    this.npm = "";
    this.classNumber = "";
    this.birthYear = 0;
    this.alamat = "";
}

public int calculateAge() {
    int currentYear = Year.now().getValue();
    int x = currentYear - birthYear;
    return x;
}
}

```

## Coding Mahasiswa



```

package rpl2_pert2_51421182;

public class Mahasiswa extends Student{

    public Mahasiswa () {
        super();
    }

    @Override
    public String toString() {
        return "Nama = " + getName() + "\n" +
            "NPM = " + getNPM() + "\n" +
            "Kelas = " + getClassNumber() + "\n" +
            "Tahun Lahir = " + getBirthYear() + "\n" +
            "Umur = " + calculateAge() + "\n" +
            "Alamat = " + getAlamat();
    }
}

```

```

        "Umur = " + calculateAge() + "\n" +
        "Alamat = " + getAlamat();

    }

}

```

## Output

The screenshot shows the Apache NetBeans IDE interface. The top menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help, and RPL2\_Pert2\_51421182 - Apache NetBeans IDE... The toolbar below has various icons for file operations. The central workspace shows three open files: RPL2\_Pert2\_51421182.java, Student.java, and Mahasiswa.java. The RPL2\_Pert2\_51421182.java file contains Java code. The Output window at the bottom displays the program's run output and build logs.

```

RPL2_Pert2_51421182.java
12     mahasiswa.setBirthYear(2003);
13     mahasiswa.setAlamat("Depok");
14
15     System.out.println(mahasiswa.toString());
16 }
17
18 }

Output - RPL2_Pert2_51421182 (run) x
run:
Nama = Debby
NPM = 51421182
Kelas = 4IA06
Tahun Lahir = 2003
Umur = 21
Alamat = Depok
BUILD SUCCESSFUL (total time: 0 seconds)

```

run:

```

Nama = Debby
NPM = 51421182
Kelas = 4IA06
Tahun Lahir = 2003
Umur = 21
Alamat = Depok
BUILD SUCCESSFUL (total time: 0 seconds)

```