

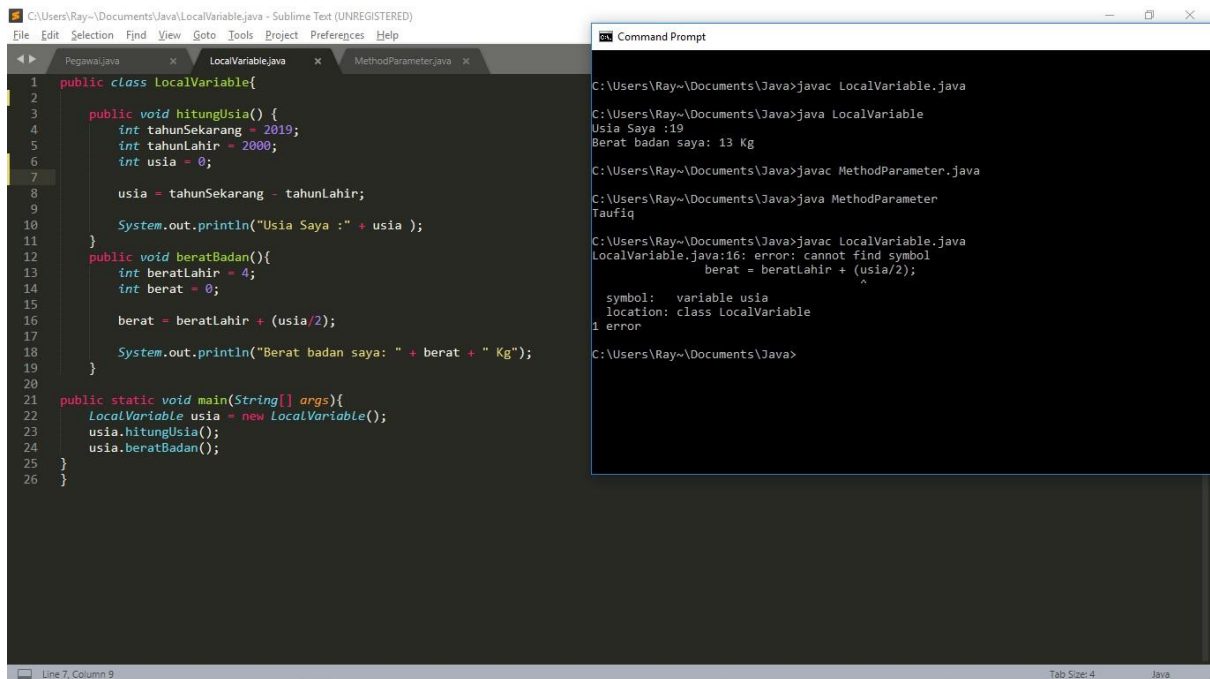
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Laporan Modul ke-3

Latihan 1



The screenshot shows a Sublime Text editor with a Java file named `LocalVariable.java`. The code defines a class `LocalVariable` with two methods: `hitungUsia()` and `beratBadan()`. The `hitungUsia()` method calculates age based on birth year and current year. The `beratBadan()` method calculates weight based on birth weight and age. The `main` method creates an instance of `LocalVariable` and calls both methods. The output of the program is displayed in the Command Prompt: `Usia Saya :19` and `Berat badan saya: 13 Kg`. The error message in the Command Prompt indicates that the variable `usia` is not found in the scope of the `beratBadan()` method.

```
public class LocalVariable{
    public void hitungUsia() {
        int tahunSekarang = 2019;
        int tahunLahir = 2000;
        int usia = 0;

        usia = tahunSekarang - tahunLahir;

        System.out.println("Usia Saya : " + usia );
    }
    public void beratBadan(){
        int beratLahir = 4;
        int berat = 0;

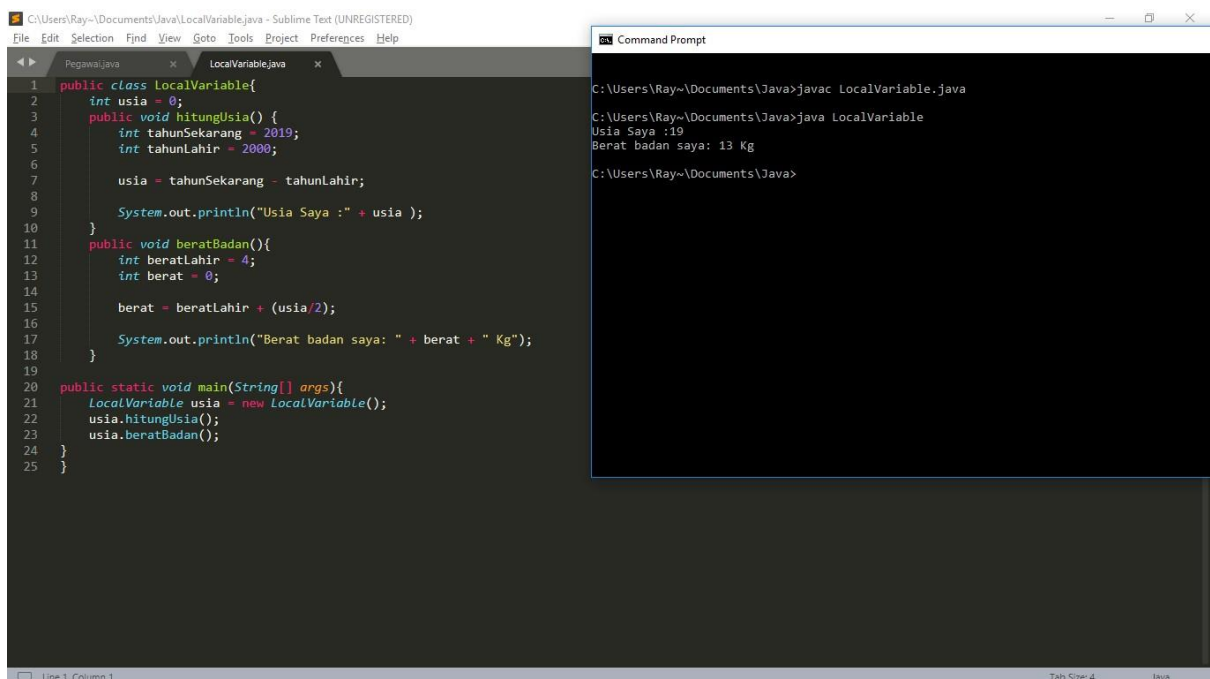
        berat = beratLahir + (usia/2);

        System.out.println("Berat badan saya: " + berat + " Kg");
    }
}

public static void main(String[] args){
    LocalVariable usia = new LocalVariable();
    usia.hitungUsia();
    usia.beratBadan();
}
```

Tidak bisa berjalan karena local variable hanya dapat digunakan pada method tersebut saja.

Latihan 2.



The screenshot shows a Sublime Text editor with a Java file named `LocalVariable.java`. The code defines a class `LocalVariable` with two methods: `hitungUsia()` and `beratBadan()`. The `hitungUsia()` method calculates age based on birth year and current year. The `beratBadan()` method calculates weight based on birth weight and age. The `main` method creates an instance of `LocalVariable` and calls both methods. The output of the program is displayed in the Command Prompt: `Usia Saya :19` and `Berat badan saya: 13 Kg`. The error message in the Command Prompt indicates that the variable `usia` is not found in the scope of the `beratBadan()` method.

```
public class LocalVariable{
    int usia = 0;
    public void hitungUsia() {
        int tahunSekarang = 2019;
        int tahunLahir = 2000;

        usia = tahunSekarang - tahunLahir;

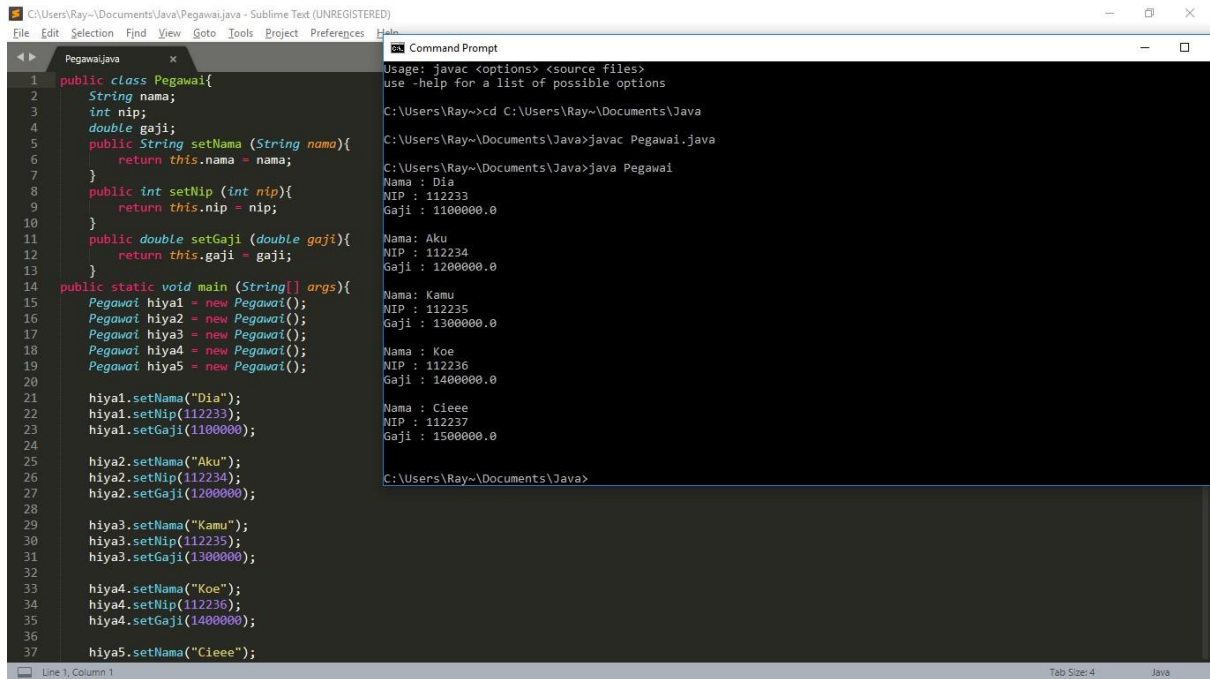
        System.out.println("Usia Saya : " + usia );
    }
    public void beratBadan(){
        int beratLahir = 4;
        int berat = 0;

        berat = beratLahir + (usia/2);

        System.out.println("Berat badan saya: " + berat + " Kg");
    }
}

public static void main(String[] args){
    LocalVariable usia = new LocalVariable();
    usia.hitungUsia();
    usia.beratBadan();
}
```

Latihan 3



The screenshot shows a Java IDE with the file Pegawai.java open. The code defines a Pegawai class with attributes nama, nip, and gaji, and methods for setting these attributes and a main method that creates five Pegawai objects and sets their values. The Command Prompt shows the execution of the program, displaying the output for each object.

```
public class Pegawai{
    String nama;
    int nip;
    double gaji;
    public String setNama (String nama){
        return this.nama = nama;
    }
    public int setNip (int nip){
        return this.nip = nip;
    }
    public double setGaji (double gaji){
        return this.gaji = gaji;
    }
    public static void main (String[] args){
        Pegawai hiya1 = new Pegawai();
        Pegawai hiya2 = new Pegawai();
        Pegawai hiya3 = new Pegawai();
        Pegawai hiya4 = new Pegawai();
        Pegawai hiya5 = new Pegawai();

        hiya1.setNama("Dia");
        hiya1.setNip(112233);
        hiya1.setGaji(1100000);

        hiya2.setNama("Aku");
        hiya2.setNip(112234);
        hiya2.setGaji(1200000);

        hiya3.setNama("Kamu");
        hiya3.setNip(112235);
        hiya3.setGaji(1300000);

        hiya4.setNama("Koe");
        hiya4.setNip(112236);
        hiya4.setGaji(1400000);

        hiya5.setNama("Cieeee");
    }
}
```

```
Usage: javac <options> <source files>
use -help for a list of possible options

C:\Users\Ray->cd C:\Users\Ray\Documents\Java

C:\Users\Ray\Documents\Java>javac Pegawai.java

C:\Users\Ray\Documents\Java>java Pegawai
Nama : Dia
NIP : 112233
Gaji : 1100000.0

Nama : Aku
NIP : 112234
Gaji : 1200000.0

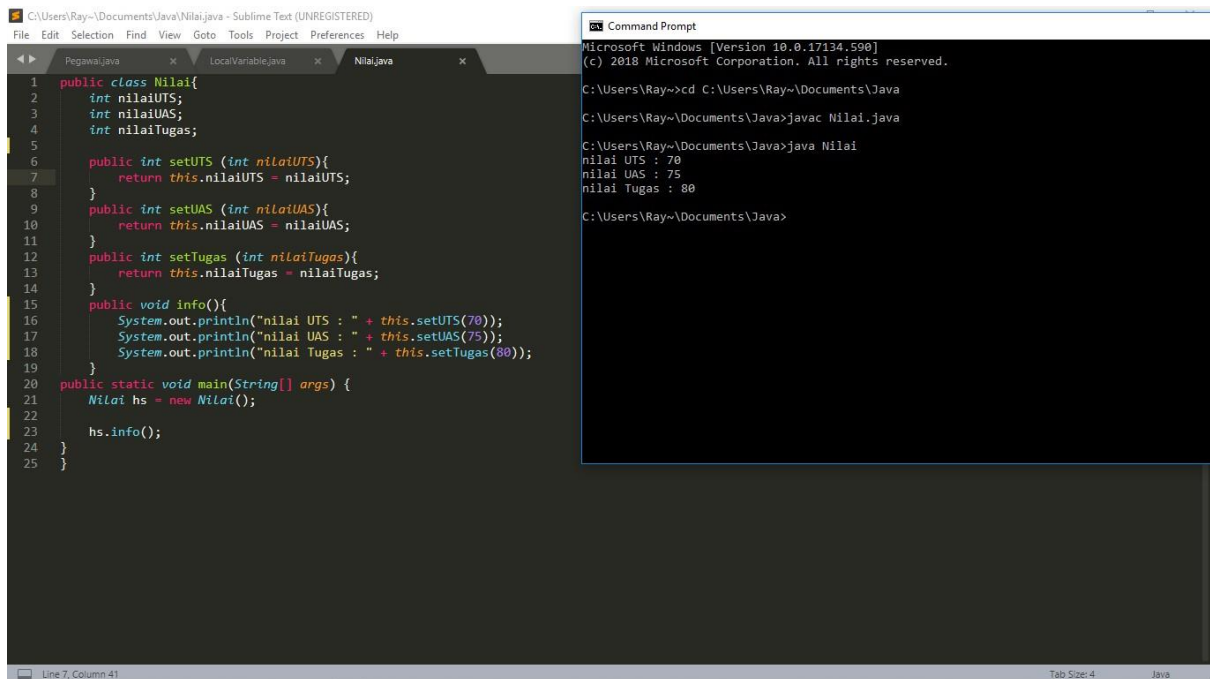
Nama : Kamu
NIP : 112235
Gaji : 1300000.0

Nama : Koe
NIP : 112236
Gaji : 1400000.0

Nama : Cieeee
NIP : 112237
Gaji : 1500000.0

C:\Users\Ray->\Documents\Java>
```

Pekerjaan Rumah 1



The screenshot shows a Java IDE with the file Nilai.java open. The code defines a Nilai class with attributes nilaiUTS, nilaiUAS, and nilaiTugas, and methods for setting these attributes, an info method that prints the values, and a main method that creates a Nilai object and sets its values. The Command Prompt shows the execution of the program, displaying the output of the info method.

```
public class Nilai{
    int nilaiUTS;
    int nilaiUAS;
    int nilaiTugas;

    public int setUTS (int nilaiUTS){
        return this.nilaiUTS = nilaiUTS;
    }
    public int setUAS (int nilaiUAS){
        return this.nilaiUAS = nilaiUAS;
    }
    public int setTugas (int nilaiTugas){
        return this.nilaiTugas = nilaiTugas;
    }
    public void info(){
        System.out.println("nilai UTS : " + this.setUTS(70));
        System.out.println("nilai UAS : " + this.setUAS(75));
        System.out.println("nilai Tugas : " + this.setTugas(80));
    }
    public static void main(String[] args) {
        Nilai hs = new Nilai();
        hs.info();
    }
}
```

```
Microsoft Windows [Version 10.0.17134.590]
(c) 2018 Microsoft Corporation. All rights reserved.

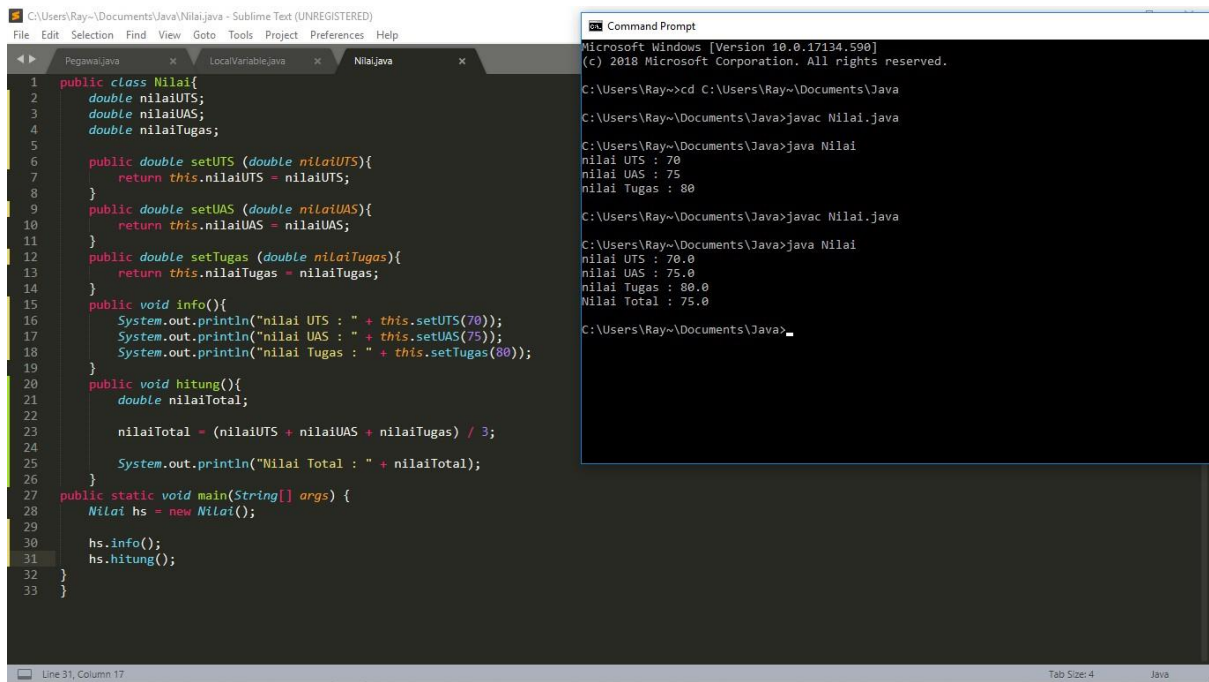
C:\Users\Ray->cd C:\Users\Ray\Documents\Java

C:\Users\Ray\Documents\Java>javac Nilai.java

C:\Users\Ray\Documents\Java>java Nilai
nilai UTS : 70
nilai UAS : 75
nilai Tugas : 80

C:\Users\Ray\Documents\Java>
```

Pekerjaan Rumah 2



The screenshot displays a Java IDE (Sublime Text) and a Windows Command Prompt. The IDE shows a Java class named `Nilai` with attributes `nilaiUTS`, `nilaiUAS`, and `nilaiTugas`. It includes setter methods (`setUTS`, `setUAS`, `setTugas`), an `info` method for displaying values, and a `hitung` method for calculating the average. The `main` method creates an instance of `Nilai`, sets values, and calls `info` and `hitung`.

The Command Prompt shows the execution of the program. It navigates to the directory `C:\Users\Ray~\Documents\Java` and compiles the `Nilai.java` file. The output of the `java Nilai` command is as follows:

```
C:\Users\Ray~\Documents\Java>java Nilai
nilai UTS : 70.0
nilai UAS : 75.0
nilai Tugas : 80.0
Nilai Total : 75.0
```

The status bar at the bottom of the IDE indicates "Line 31, Column 17", "Tab Size: 4", and the file type is "Java".