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MODUL 3

Latihan 1

The screenshot shows the Apache NetBeans IDE interface. The project 'Modul3' contains several Java files: LocalVariable.java, InstanceVariable.java, StaticVariable.java, StaticVariableAccess.java, and Pegawai.java. The LocalVariable.java file is open in the editor. It contains code for a LocalVariable class with a hitungUsia() method and a main() method. A red squiggly underline is under the variable 'umur' in the hitungUsia() method, indicating a compilation error. The error message in the Output window is: 'cannot find symbol symbol: variable umur location: class LocalVariable'. The build log shows a BUILD FAILED message.

```
LocalVariable.java
public class LocalVariable {
    public void hitungUsia () {
        int usia = 3;
        int tahunSekarang = 2019;
        int tahunLahir = 1999;
        int umur = tahunSekarang - tahunLahir;
        System.out.println("Usia saya: " + usia);
    }
    public static void main (String[] args){
        LocalVariable local = new LocalVariable();
        local.hitungUsia();
        local.beratBadan();
    }
}
```

Output - Modul3 (run)

```
symbol: variable usia
location: class modul3.LocalVariable
at modul3.LocalVariable.main [LocalVariable.java:30]
C:\Users\st111\appData\Local\NetBeans\Cache\11.1\executor-snippets\run.xml:11: The following error occurred while executing this line:
C:\Users\st111\appData\Local\NetBeans\Cache\11.1\executor-snippets\run.xml:34: Java returned: 1
BUILD FAILED (total time: 1 second)
```

Variabel Umur tidak dapat dipanggil dari method beratBadan() karena umur merupakan Local Variable sehingga error ketika dijalankan.

Latihan 2

The screenshot shows the Apache NetBeans IDE interface. The project 'Modul3' contains several Java files: InstanceVariable.java, LocalVariable.java, StaticVariable.java, StaticVariableAccess.java, and Pegawai.java. The InstanceVariable.java file is open in the editor. It contains code for an InstanceVariable class with a hitungUsia() method, a beratBadan() method, and a main() method. The build log shows a BUILD SUCCESSFUL message.

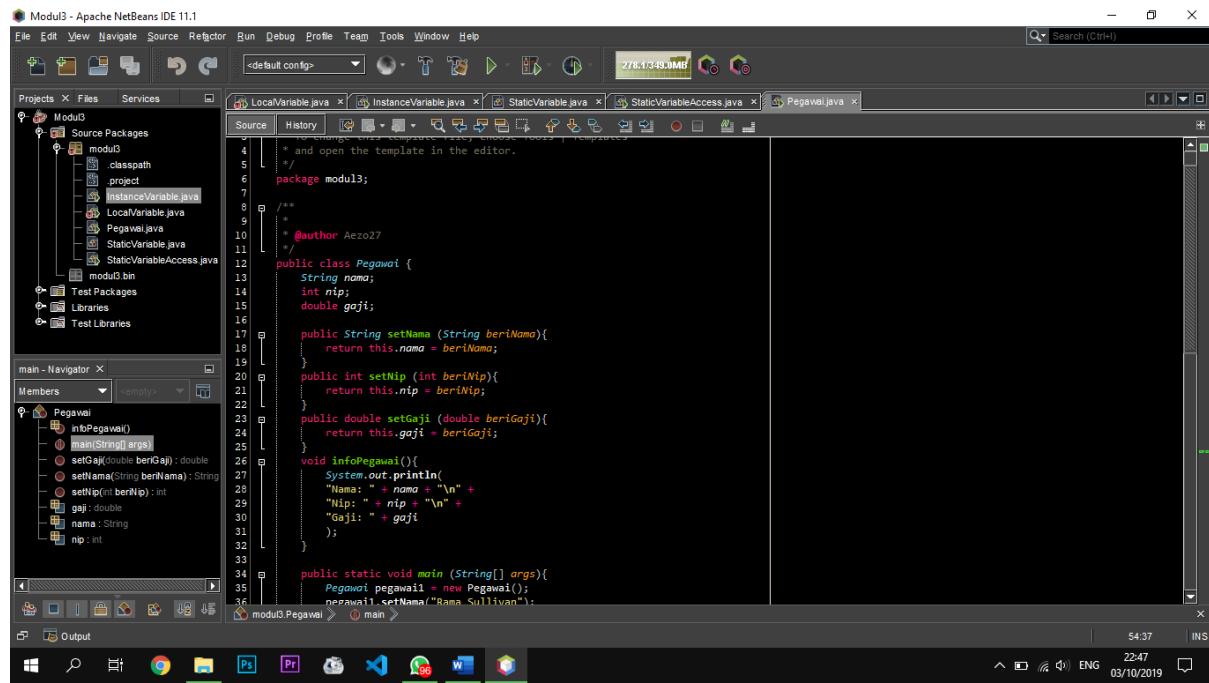
```
InstanceVariable.java
public class InstanceVariable {
    int umur;
    public void hitungUsia () {
        int tahunSekarang = 2019;
        int tahunLahir = 1999;
        int usia;
        usia = tahunSekarang - tahunLahir;
        this.umur = usia;
        System.out.println("Usia saya: " + usia);
    }
    public void beratBadan(){
        int beratLahir = 3;
        int beratBadan = beratLahir +(umur/2);
        System.out.println("Berat saya: " + beratBadan);
    }
    public static void main (String[] args){
        InstanceVariable local = new InstanceVariable();
        local.hitungUsia();
        local.beratBadan();
    }
}
```

Output - Modul3 (run)

```
Usia saya: 20
Berat saya: 13
BUILD SUCCESSFUL (total time: 0 seconds)
```

Global Variable dapat diakses dari method manapun, dan dengan cara menambahkan this untuk menyimpan nilai.

Latihan 3



Modul3 - Apache NetBeans IDE 11.1

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Projects X Files Services

Source Packages modul3 classpath project instanceVariable.java LocalVariable.java Pegawai.java StaticVariable.java StaticVariableAccess.java

LocalVariable.java x instanceVariable.java x StaticVariable.java x StaticVariableAccess.java x Pegawai.java x

Source History

```
1 * To change this template, choose Tools | Templates and open the template in the editor.
2
3 package modul3;
4
5 /**
6  * @author Aezo27
7  */
8
9 public class Pegawai {
10     String nama;
11     int nip;
12     double gaji;
13
14     public String setNama (String beriNama){
15         return this.nama = beriNama;
16     }
17     public int setNip (int berNip){
18         return this.nip = berNip;
19     }
20     public double setGaji (double berGaji){
21         return this.gaji = berGaji;
22     }
23     void infoPegawai(){
24         System.out.println(
25             "Nama: " + nama + "\n" +
26             "NIP: " + nip + "\n" +
27             "Gaji: " + gaji
28         );
29     }
30
31     public static void main (String[] args){
32         Pegawai pegawai1 = new Pegawai();
33         pegawai1.setNama("Rama Sullivan");
34     }
35 }
```

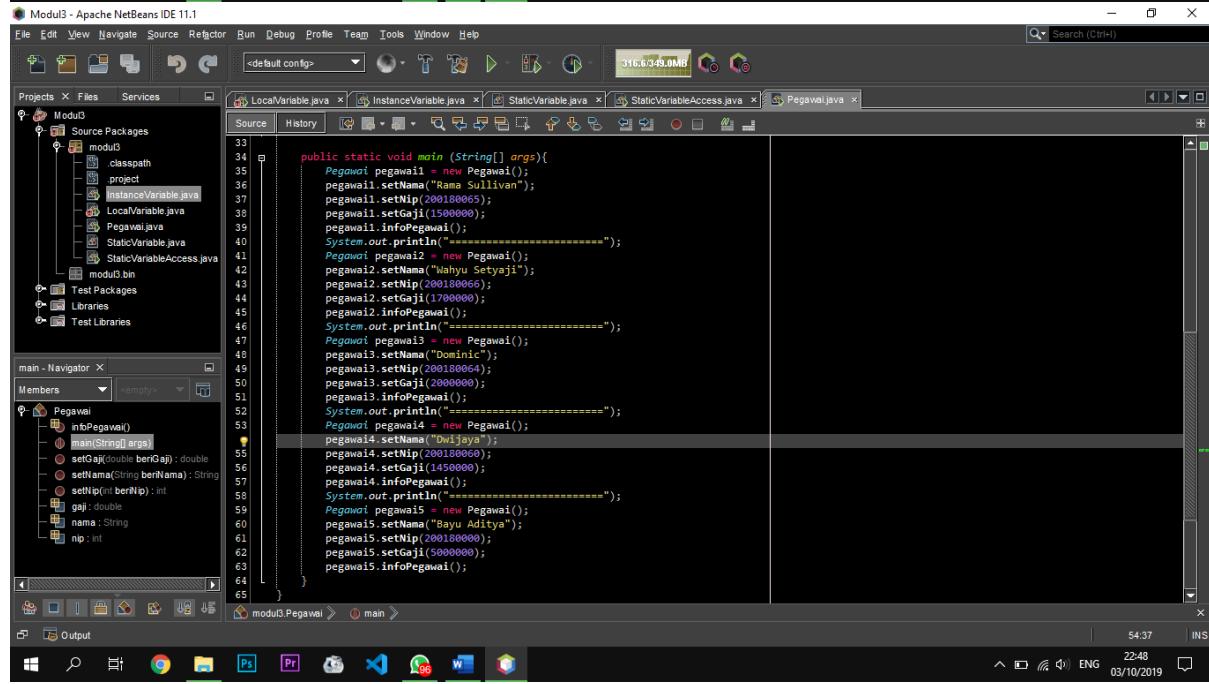
main - Navigator

Members Pegawai (inPegawai) main(String[] args) setGaji(double berGaji) setNama(String berNama) setNip(int berNip) gaji: double nama: String nip: int

Output

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Modul3 - Apache NetBeans IDE 11.1

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Projects X Files Services

Source Packages modul3 classpath project instanceVariable.java LocalVariable.java Pegawai.java StaticVariable.java StaticVariableAccess.java

LocalVariable.java x instanceVariable.java x StaticVariable.java x StaticVariableAccess.java x Pegawai.java x

Source History

```
33
34     public static void main (String[] args){
35         Pegawai pegawai1 = new Pegawai();
36         pegawai1.setNama("Rama Sullivan");
37         pegawai1.setNip(200180065);
38         pegawai1.setGaji(1500000);
39         pegawai1.infoPegawai();
40         System.out.println("-----");
41         Pegawai pegawai2 = new Pegawai();
42         pegawai2.setNama("Wahyu Setyaji");
43         pegawai2.setNip(200180066);
44         pegawai2.setGaji(1700000);
45         pegawai2.infoPegawai();
46         System.out.println("-----");
47         Pegawai pegawai3 = new Pegawai();
48         pegawai3.setNama("Dominic");
49         pegawai3.setNip(200180064);
50         pegawai3.setGaji(2000000);
51         pegawai3.infoPegawai();
52         System.out.println("-----");
53         Pegawai pegawai4 = new Pegawai();
54         pegawai4.setNama("Dwijaya");
55         pegawai4.setNip(200180060);
56         pegawai4.setGaji(1450000);
57         pegawai4.infoPegawai();
58         System.out.println("-----");
59         Pegawai pegawai5 = new Pegawai();
60         pegawai5.setNama("Bayu Aditya");
61         pegawai5.setNip(200180000);
62         pegawai5.setGaji(8000000);
63         pegawai5.infoPegawai();
64     }
65 }
```

main - Navigator

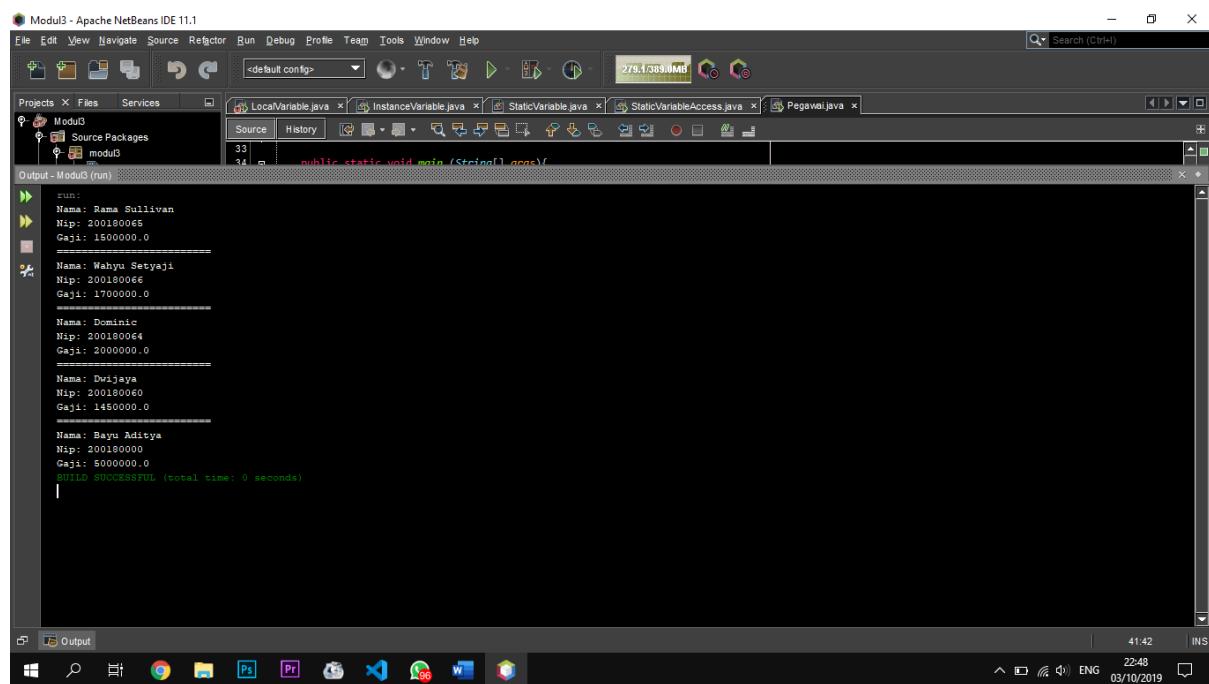
Members Pegawai (inPegawai) main(String[] args) setGaji(double berGaji) setNama(String berNama) setNip(int berNip) gaji: double nama: String nip: int

Output

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Hasil Run:



Modul3 - Apache NetBeans IDE 11.1

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Projects X Files Services

Source Packages modul3 classpath project instanceVariable.java LocalVariable.java Pegawai.java StaticVariable.java StaticVariableAccess.java

LocalVariable.java x instanceVariable.java x StaticVariable.java x StaticVariableAccess.java x Pegawai.java x

Output - Modul3 (run)

```
> Erun:
> Name: Rama Sullivan
> Nip: 200180065
> Gaji: 1500000.0
=====
> Name: Wahyu Setyaji
> Nip: 200180066
> Gaji: 1700000.0
=====
> Name: Dominic
> Nip: 200180064
> Gaji: 2000000.0
=====
> Name: Dwijaya
> Nip: 200180060
> Gaji: 1450000.0
=====
> Name: Bayu Aditya
> Nip: 200180000
> Gaji: 8000000.0
BUILD SUCCESSFUL (total time: 0 seconds)
```

Output

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Pekerjaan Rumah

1.

Modul3 - Apache NetBeans IDE 11.1

```
10 * @author AezoZ7
11
12 public class Nilai {
13     int nilaiUTS;
14     int nilaiUAS;
15     int nilaiTugas;
16
17     public int setUTS (int nilaiUTS){
18         return this.nilaiUTS = nilaiUTS;
19     }
20     public int setUAS (int nilaiUAS){
21         return this.nilaiUAS = nilaiUAS;
22     }
23     public int setTugas (int nilaiTugas){
24         return this.nilaiTugas = nilaiTugas;
25     }
26
27     void info(){
28         System.out.println(
29             "Nilai UTS: " + this.setUTS(90) + "\n" +
30             "Nilai UAS: " + this.setUAS(100) + "\n" +
31             "Nilai Tugas: " + this.setTugas(100)
32         );
33     }
34     public static void main (String[] args){
35         Nilai NIL = new Nilai();
36         NIL.info();
37     }
38 }
```

Output - Modul3 (run)

```
> run:
> 
Nilai UTS: 90
Nilai UAS: 100
Nilai Tugas: 100
BUILD SUCCESSFUL (total time: 0 seconds)
```

2.

Modul3 - Apache NetBeans IDE 11.1

```
11 */
12 public class Nilai {
13     double nilaiUTS;
14     double nilaiUAS;
15     double nilaiTugas;
16     double nilaiTotal;
17
18     public double setUTS (double nilaiUTS){
19         return this.nilaiUTS = nilaiUTS;
20     }
21     public double setUAS (double nilaiUAS){
22         return this.nilaiUAS = nilaiUAS;
23     }
24     public double setTugas (double nilaiTugas){
25         return this.nilaiTugas = nilaiTugas;
26     }
27
28     void info(){
29         System.out.println(
30             "Nilai UTS: " + this.setUTS(90) + "\n" +
31             "Nilai UAS: " + this.setUAS(100) + "\n" +
32             "Nilai Tugas: " + this.setTugas(100)
33         );
34     }
35     void Total(){
36         nilaiTotal = (nilaiUTS+nilaiUAS+nilaiTugas)/3;
37         System.out.println(nilaiTotal);
38     }
39     public static void main (String[] args){
40         Nilai NIL = new Nilai();
41         NIL.info();
42         NIL.Total();
43     }
44 }
```

Output - Modul3 (run)

```
> run:
Nilai UTS: 90.0
Nilai UAS: 100.0
Nilai Tugas: 100.0
96.66666666666667
BUILD SUCCESSFUL (total time: 0 seconds)
```

Modul3 - Apache NetBeans IDE 11.1

```
17
18     public double setUTS (double nilaiUTS){
19         return this.nilaiUTS = nilaiUTS;
20     }
21     public double setUAS (double nilaiUAS){
22         return this.nilaiUAS = nilaiUAS;
23     }
```

Output - Modul3 (run)

```
> run:
Nilai UTS: 90.0
Nilai UAS: 100.0
Nilai Tugas: 100.0
96.66666666666667
BUILD SUCCESSFUL (total time: 0 seconds)
```