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Kelas : B

Modul 1

The screenshot shows a Windows desktop environment with the following windows:

- Command Prompt:** Shows Java version information and a simple program execution.
- Program - Notepad:** Contains the following Java code:

```
public class Program{
    public static void main (String[] args){
        System.out.println("Hello Fatan");
    }
}
```
- Roti - Notepad:** Contains the following Java code:

```
public class Roti{
    String warna;
    String rasa;
    int berat;
    double harga;
    void beriwarna(String warnaRoti){
        warna = warnaRoti;
    }
    void berirasa(String rasaRoti){
        rasa = rasaRoti;
    }
    void timbanganberat(int beratRoti){
        berat = beratRoti;
    }
    void hargajual(double hargaRoti){
        harga = hargaRoti;
    }
    void infoRoti(){
        System.out.println(
            "Warna Roti : " + warna + "\n" +
            "Rasa Roti : " + rasa + "\n" +
            "Berat Roti : " + berat + "\n" +
            "Harga Roti : Rp. " + harga);
    }
}
```
- RotiDemo - Notepad:** Contains the following Java code:

```
public class RotiDemo{
    public static void main(String[] args) {
        Roti roti = new Roti();
        roti.beriwarna("Hijau");
        roti.berirasa("Pandan");
        roti.timbanganberat(30);
        roti.hargajual(6000);
        roti.infoRoti();
    }
}
```
- RotiDemo.java:** An open code editor window showing the same Java code as the Notepad file.

Modul 2

E:\prograk\pbo\dosen.java - Sublime Text (UNREGISTERED)

File Edit Selection Find Goto Tools Project Preferences Help

OPEN FILES

- hewan.java
- hewanDemo.java
- karyawan.java
- dosen.java**
- mahasiswa.java

```
1 public class dosen {
2     String nama;
3     String nik;
4     String pendidikan;
5     Date tglLahir;
6
7     void tampilanNama(String nama){
8         this.nama = nama;
9     };
10    void tampilanTglLahir(Date tglLahir){
11        this.tglLahir = tglLahir;
12    };
13    void tampilanNik(int nik){
14        this.nik = nik;
15    };
16 }
```

Activate Windows
Go to Settings to activate Windows.

Line 1, Column 1

Tab Size: 4 Java

E:\prograk\pbo\karyawan.java - Sublime Text (UNREGISTERED)

File Edit Selection Find Goto Tools Project Preferences Help

OPEN FILES

- hewan.java
- hewanDemo.java
- karyawan.java**
- dosen.java
- mahasiswa.java

```
1 public class karyawan {
2     String nama;
3     String alamat;
4     String jabatan;
5     Double gaji;
6
7     void tampilanNama(String nama){
8         this.nama = nama;
9     };
10    void tampilanAlamat(String alamat){
11        this.alamat = alamat;
12    };
13    void tampilanJabatan(String jabatan){
14        this.jabatan = jabatan;
15    };
16    void tampilanGaji(Double gaji){
17        this.gaji = gaji;
18    };
19 }
```

Activate Windows
Go to Settings to activate Windows.

Line 1, Column 1

Tab Size: 4 Java

E:\prograk\pbo\mahasiswa.java - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

hewan.java hewanDemo.java karyawan.java dosen.java mahasiswa.java

```
1 public class mahasiswa {
2     String nama;
3     String nim;
4     String alamat;
5     int semester;
6
7     void tampilNama (String nama){
8         this.nama = nama;
9     };
10    void tampilNim (String nim){
11        this.nim = nim;
12    };
13    void tampilAlamat (String alamat){
14        this.alamat = alamat;
15    };
16    void tampilSemester (int semester){
17        this.semester = semester;
18    };
19 }
```

Line 1, Column 1

E:\prograk\pbo\hewan.java - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

hewan.java hewanDemo.java

```
1 public class hewan {
2     String nama;
3     int jmlKaki;
4     String makan;
5     String hewantype;
6
7     void getName(String nama){ this.nama = nama;}
8     void getJmlKaki(int jmlKaki){ this.jmlKaki = jmlKaki;}
9     void getMakan(String makan){ this.makan = makan;}
10    void getHewantype(String hewantype){ this.hewantype = hewantype;}
11
12    void getInfoHewan(){
13        System.out.println(
14            "Nama Hewan : " + nama + "\n" +
15            "Jumlah Kaki : " + jmlKaki + "\n" +
16            "Makanan : " + makan + "\n" +
17            "Hewan type : " + hewantype + "\n\n"
18        );
19    }
20 }
```

Activate Windows
Go to Settings to activate Windows.

Tab Size: 4 Java

E:\prograk\pbo\hewanDemo.java - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

hewan.java hewanDemo.java

```
1 public class hewanDemo{  
2     public static void main(String[] args) {  
3         hewan hewan1 = new hewan();  
4         hewan hewan2 = new hewan();  
5         hewan1.getNama("Harimau");  
6         hewan1.getJmlKaki(4);  
7         hewan1.getMakan("daging");  
8         hewan1.getHewanType("Karnivora");  
9         hewan1.getInfoHewan();  
10    }  
11    hewan2.getNama("Kerbau");  
12    hewan2.getJmlKaki(4);  
13    hewan2.getMakan("Rumput");  
14    hewan2.getHewanType("Herrnivora");  
15    hewan2.getInfoHewan();  
16 }  
17 }
```

Activate Windows
Go to Settings to activate Windows.

Tab Size: 4 Java

Line 17, Column 2

Command Prompt

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```
C:\Users\Student>javac hewanDemo.java  
javac: file not found: hewanDemo.java  
Usage: javac <options> <source files>  
use -help for a list of possible options
```

```
C:\Users\Student>e:  
E:\>cd prograk\pbo  
E:\prograk\pbo>javac hewanDemo.java  
E:\prograk\pbo>javac hewan.java  
E:\prograk\pbo>java hewanDemo  
Nama Hewan : Harimau  
Jumlah Kaki : 4  
Makanan : daging  
Hewan type : Karnivora  
  
Nama Hewan : Kerbau  
Jumlah Kaki : 4  
Makanan : Rumput  
Hewan type : Herrnivora
```

E:\prograk\pbo>

Modul 3

The screenshot shows three Sublime Text windows side-by-side:

- Top Left Window:** Contains the code for `StaticVariableAccess.java`. It defines a class `StaticVariableAccess` with a static void main method. Inside, it creates an object `sv` of type `StaticVariable`, calls `sv.firstMethod()`, and `sv.secondMethod()`. The `StaticVariable` class has a static char variable `akreditasi` initialized to 'B'.
- Top Right Window:** Contains the code for `LokalVariabel.java`. It defines a class `LokalVariabel` with a static void `main` method. This method creates an object `Data` of type `LokalVariabel`, calls its `HitungUsia()` and `BeratBadan()` methods. The `LokalVariabel` class has a static final String `jurusan` set to "Informatika". It also contains two instance methods, `firstMethod()` and `secondMethod()`, which print the value of `akreditasi`.
- Bottom Window:** Contains the command-line interface of Windows cmd.exe. It shows the directory as `E:\Kuliah\PBO`. The user runs `javac StaticVariableAccess.java` and `javac LokalVariabel.java`. Then, they run `java StaticVariableAccess`, which outputs "Informatika". They then run `java LokalVariabel`, which outputs "Usia saya : 18" and "Berat saya : 12".

The screenshot shows a Windows desktop environment with three open windows:

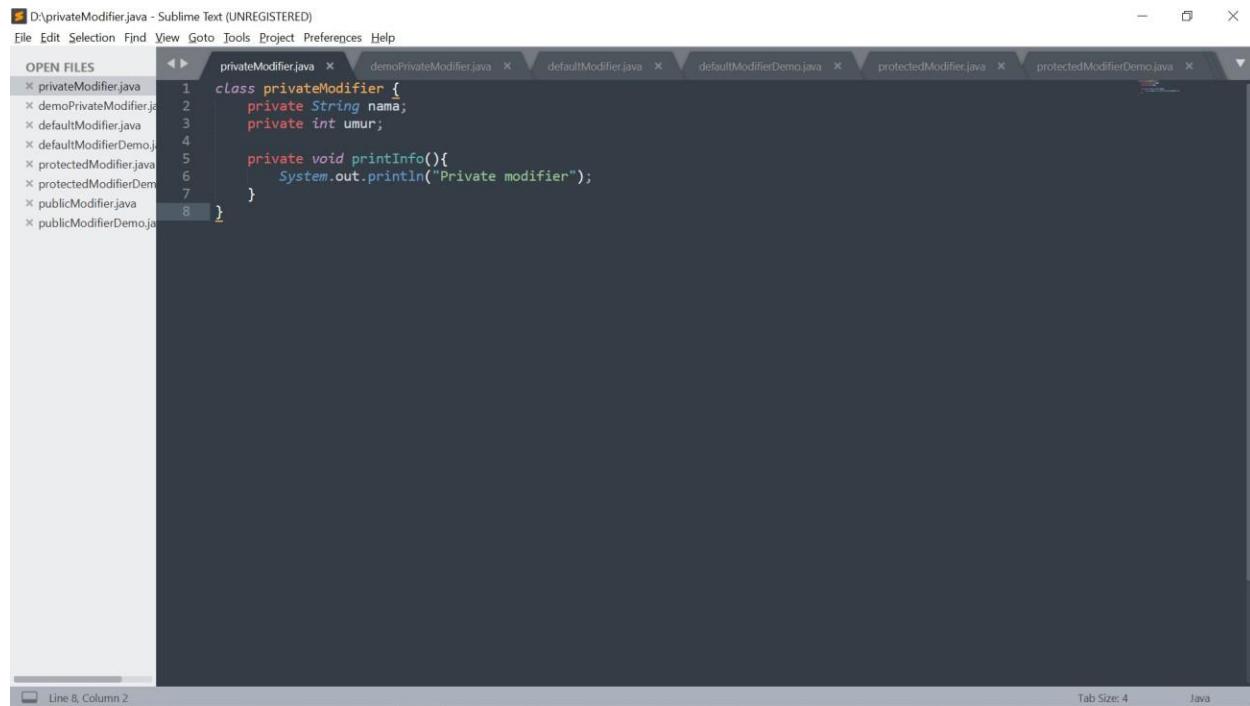
- Sublime Text (Left Window):** Contains Java code for a `DemoPegawai` class. It includes declarations for `Pegawai` objects `man`, `man2`, `man3`, `man4`, and `man5`, and their respective methods `setNama`, `setNip`, `setGaji`, and `info`. The code is annotated with line numbers from 1 to 32.
- Sublime Text (Middle Window):** Contains Java code for a `Pegawai` class, which is identical to the one in the left window but lacks the `main` method.
- cmd.exe (Right Window):** Shows the terminal output of running `javac Pegawai.java` followed by `java DemoPegawai`. The output displays five instances of the `Pegawai` class with their properties (`Nama`, `NIP`, `Gaji`) and the result of the `info` method.

```
Line 27, Column 35
```

```
E:\Kuliah\Kuliah PBO>javac Pegawai.java
E:\Kuliah\Kuliah PBO>java DemoPegawai
Nama : Fatan
NIP : 200180087
Gaji : 600.0 USD
Nama : Rahmadan
NIP : 200180088
Gaji : 700.0 USD
Nama : MuchFatan
NIP : 200180089
Gaji : 800.0 USD
Nama : MuchFatan Rahmadan
NIP : 200180090
Gaji : 900.0 USD
Nama : Dr. H. Ir. MuchFatan Rahmadan
NIP : 200180099
Gaji : 999.0 USD
```

Modul 4

1. Private Modifier



A screenshot of the Sublime Text editor interface, showing multiple tabs open at the top. The active tab is "privateModifier.java". The code in the editor is:

```
1 class privateModifier {
2     private String nama;
3     private int umur;
4
5     private void printInfo(){
6         System.out.println("Private modifier");
7     }
8 }
```

The code uses Java syntax to define a class named "privateModifier" with private attributes "nama" and "umur", and a private method "printInfo" that prints "Private modifier" to the console.

D:\demoPrivateModifier.java - Sublime Text (UNREGISTERED)

File Edit Selection Find Goto Tools Project Preferences Help

OPEN FILES

- privateModifier.java
- demoPrivateModifier.java
- defaultModifier.java
- defaultModifierDemo.java
- protectedModifier.java
- protectedModifierDemo.java
- publicModifier.java
- publicModifierDemo.java

```
1 class demoPrivateModifier {
2     public static void main(String[] args){
3         privateModifier pm = new privateModifier();
4         pm.printInfo();
5     }
6 }
```

Line 4, Column 24

Tab Size: 4 Java

This screenshot shows a Sublime Text window with multiple tabs open. The active tab contains Java code for a class named 'demoPrivateModifier'. The code includes a main method that creates an instance of 'privateModifier' and calls its 'printInfo' method. The code is highlighted in light blue, and the background of the editor is dark grey.

Tidak dapat diakses karena hanya dapat diakses didalam package dan class yang sama

D:\demoPrivateModifier.java - Sublime Text (UNREGISTERED)

File Edit Selection Find Goto Tools Project Preferences Help

OPEN FILES

- privateModifier.java
- demoPrivateModifier.java

Command Prompt

```
Microsoft Windows [Version 10.0.17134.1040]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\user>d:
D:\>javac privateModifier.java
D:\>java privateModifier
Error: Main method not found in class privateModifier, please define the main method as:
  public static void main(String[] args)
or a JavaFX application class must extend javafx.application.Application

D:\>javac demoPrivateModifier.java
demoPrivateModifier.java:4: error: printInfo() has private access in privateModifier
        pm.printInfo();
               ^
1 error
D:\>
```

Line 4, Column 24

Tab Size: 4 Java

This screenshot shows a Windows Command Prompt window. It displays the output of running Java compilers ('javac') on two Java files: 'privateModifier.java' and 'demoPrivateModifier.java'. The compiler outputs errors indicating that the 'main' method is missing from 'privateModifier.java' and that the 'printInfo()' method, which is declared as 'private' in 'privateModifier.java', cannot be accessed from outside its class. The background of the terminal window is black, and the text is white.

2. Default Modifier

D:\defaultModifier.java - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- privateModifier.java
- demoPrivateModifier.java
- defaultModifier.java
- defaultModifierDemo.java
- protectedModifier.java
- protectedModifierDemo.java
- publicModifier.java
- publicModifierDemo.java

```
1 class defaultModifier{
2     int a = 1;
3     int b = 2;
4     int c;
5     void jumlah(){
6         c = a + b;
7         System.out.println(c);
8     }
9 }
```

Line 7, Column 31

Tab Size: 4 Java

D:\defaultModifierDemo.java - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- privateModifier.java
- demoPrivateModifier.java
- defaultModifier.java
- defaultModifierDemo.java
- protectedModifier.java
- protectedModifierDemo.java
- publicModifier.java
- publicModifierDemo.java

```
1 class defaultModifierDemo{
2     public static void main(String[] args){
3         defaultModifier dm = new defaultModifier();
4         dm.jumlah();
5     }
6 }
```

Line 4, Column 21

Tab Size: 4 Java

D:\defaultModifierDemo.java - Sublime Text (UNREGISTERED)

File Edit Selection Find Goto Tools Project Preferences Help

OPEN FILES

privateModifier.java demoPrivateModifier.java defaultModifier.java defaultModifierDemo.java

Command Prompt

```
D:\>java privateModifier
Error: Main method not found in class privateModifier, please define the main method as:
  public static void main(String[] args)
or a JavaFX application class must extend javafx.application.Application

D:\>javac demoPrivateModifier.java
demoPrivateModifier.java:4: error: printInfo() has private access in privateModifier
        pm.printInfo();
               ^
1 error

D:\>javac defaultModifier.java

D:\>java defaultModifier
Error: Main method not found in class defaultModifier, please define the main method as:
  public static void main(String[] args)
or a JavaFX application class must extend javafx.application.Application

D:\>javac defaultModifierDemo.java

D:\>java defaultModifierDemo
3

D:\>
```

Line 4, Column 21

Tab Size: 4 Java

Tidak dapat diakses karena default modifier hanya dapat diakses didalam class berbeda namun dalam package yang sama.

D:\defaultModifier.java - Sublime Text (UNREGISTERED)

File Edit Selection Find Goto Tools Project Preferences Help

OPEN FILES

privateModifier.java defaultModifier.java defaultModifierDemo.java protectedModifier.java protectedModifierDemo.java publicModifier.java publicModifierDemo.java

Command Prompt

```
D:\>javac defaultModifier.java

D:\>java defaultModifier
Error: Main method not found in class defaultModifier, please define the main method as:
  public static void main(String[] args)
or a JavaFX application class must extend javafx.application.Application

D:\>
```

Line 7, Column 31

Tab Size: 4 Java

3. Protected Modifier

D:\protectedModifier.java - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

```
privateModifier.java x demoPrivateModifier.java x defaultModifier.java x defaultModifierDemo.java x protectedModifier.java x protectedModifierDemo.java x publicModifier.java x publicModifierDemo.java x
```

Line 1, Column 1

1 class protectedModifier{
2 protected void printInfo(){
3 System.out.println("Protected Modifier");
4 }
5 protected void sendMessage(){
6 System.out.println("This is message");
7 }
8 }

Tab Size: 4 Java

D:\protectedModifierDemo.java - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

```
privateModifier.java x demoPrivateModifier.java x defaultModifier.java x defaultModifierDemo.java x protectedModifier.java x protectedModifierDemo.java x publicModifier.java x publicModifierDemo.java x
```

Line 7, Column 2

1 class protectedModifierDemo{
2 public static void main(String[] args){
3 protectedModifier pro = new protectedModifier();
4 pro.printInfo();
5 pro.sendMessage();
6 }
7 }

Tab Size: 4 Java

D:\protectedModifier.java - Sublime Text (UNREGISTERED)

File Edit Selection Find Goto Tools Project Preferences Help

OPEN FILES

- privateModifier.java
- demoPrivateModifier.java
- defaultModifier.java
- defaultModifierDemo.java
- protectedModifier.java
- protectedModifierDemo.java

Command Prompt

```
D:\>javac protectedModifierDemo.java
D:\>java protectedModifierDemo
Protected Modifier
This is message
```

D:\>

Line 1, Column 8

Tab Size: 4 Java

This screenshot shows a Sublime Text interface with several tabs open. The current tab is 'protectedModifier.java'. A separate terminal window is open, showing the command 'javac protectedModifierDemo.java' being run, followed by the output of the program 'Protected Modifier' and 'This is message'. The status bar at the bottom indicates 'Line 1, Column 8' and 'Tab Size: 4 Java'.

4. Public Modifier

D:\publicModifier.java - Sublime Text (UNREGISTERED)

File Edit Selection Find Goto Tools Project Preferences Help

OPEN FILES

- privateModifier.java
- demoPrivateModifier.java
- defaultModifier.java
- defaultModifierDemo.java
- protectedModifier.java
- protectedModifierDemo.java
- publicModifier.java
- publicModifierDemo.java

```
1 class publicModifier{
2     public int a = 2;
3     public int b = 5;
4     public int c = 9;
5     public void kali(){
6         int d = a*b*c;
7         System.out.println("Hasil Kali = " + d);
8     }
9 }
```

Line 9, Column 2

Tab Size: 4 Java

This screenshot shows a Sublime Text interface with several tabs open. The current tab is 'publicModifier.java'. The code in the editor defines a class named 'publicModifier' with three integer fields (a, b, c) and a method 'kali()' that calculates their product and prints it. The status bar at the bottom indicates 'Line 9, Column 2' and 'Tab Size: 4 Java'.

D:\publicModifierDemo.java Sublime Text (UN REGISTERED)
file Edit ecton Find :Liew to Tools project Prefe u1JCe5 :ielp

Cl X

The screenshot shows a Sublime Text window with multiple tabs open, all related to Java files. The active tab contains the following code:

```
OPEN FILES
privateModifierDemo.java x defaultModifierDemo.java x protectedModifier.java x protectedModifierDemo.java x publicModifier.java x publicModifierDemo.java x
1 class publicModifierDemo{
2     public static void main(String[] args){
3         publicModifier pub = new publicModifier();
4         pub.kali();
5     }
6 }
```

The status bar at the bottom indicates "Line 4 Column 20".

D:\publicModifierDemo.java Sublime Text (UNREGISTERED)
file Edit Selection Find Goto Jools Project P.e fe.,ec es tielp

Cl X

The screenshot shows a Sublime Text window with a terminal tab open. The terminal output is as follows:

```
OPEN FILES
x privateModifierDemo.java x defaultModifierDemo.java x protectedModifier.java x protectedModifierDemo.java x publicModifier.java x publicModifierDemo.java x
Command Prompt
D:\>javac protectedModifierDemo.java
D:\>java protectedModifierDemo
Protected Modifier
This is message
D:\>javac publicModifier.java
D:\>java publicModifier
Error: Main method not found in class publicModifier, please define the main method as:
  public static void main(String[] args)
or a JavaFX application class must extend javafx.application.Application
D:\>javac publicModifierDemo.java
D:\>java publicModifierDemo
Hasil Kali = 98
D:\>
```

The status bar at the bottom indicates "Line 4 Column 20".

Kali, tambah, kurang, bagi, dan rata-rata

D:\publicModifier.java - Sublime Text (UNREGISTERED)

```
OPEN FILES
× privateModifier.java
× demoPrivateModifier.java
× defaultModifier.java
× defaultModifierDemo.java
× protectedModifier.java
× protectedModifierDemo.java
× publicModifier.java
× publicModifierDemo.java

1 class publicModifier{
2     public int a = 2;
3     public int b = 5;
4     public int c = 9;
5     public void kali(){
6         int d = a*b*c;
7         System.out.println("Hasil Kali = " + d);
8     }
9     public void tambah(){
10        int d = a+b+c;
11        System.out.println("Hasil Tambah = " + d);
12    }
13    public void kurang(){
14        int d = a-b-c;
15        System.out.println("Hasil Kurang = " + d);
16    }
17    public void bagi(){
18        int d = a/b/c;
19        System.out.println("Hasil Bagi = " + d);
20    }
21    public void ratarata(){
22        int d = (a+b+c)/3;
23        System.out.println("Hasil Rata-rata = " + d);
24    }
25 }
```

Line 23, Column 44

Tab Size: 4 Java

D:\publicModifierDemo.java - Sublime Text (UNREGISTERED)

```
OPEN FILES
× privateModifier.java
× demoPrivateModifier.java
× defaultModifier.java
× defaultModifierDemo.java
× protectedModifier.java
× protectedModifierDemo.java
× publicModifier.java
× publicModifierDemo.java

1 class publicModifierDemo{
2     public static void main(String[] args){
3         publicModifier pub = new publicModifier();
4         pub.kali();
5         pub.tambah();
6         pub.kurang();
7         pub.bagi();
8         pub.ratarata();
9     }
10 }
```

Line 5, Column 19

Tab Size: 4 Java

Hasil

D:\publicModifierDemo.java - Sublime Text (UNREGISTERED)

File Edit Selection Find Goto Tools Project Preferences Help

OPEN FILES

privateMod defaultModifier.java x defaultModifierDemo.java x protectedModifier.java x protectedModifierDemo.java x publicModifier.java x publicModifierDemo.java x

demoPriv Command Prompt

D:\>javac publicModifierDemo.java

D:\>java publicModifierDemo

Hasil Kali = 90

Hasil Tambah = 16

Hasil Kurang = -12

Hasil Bagi = 0

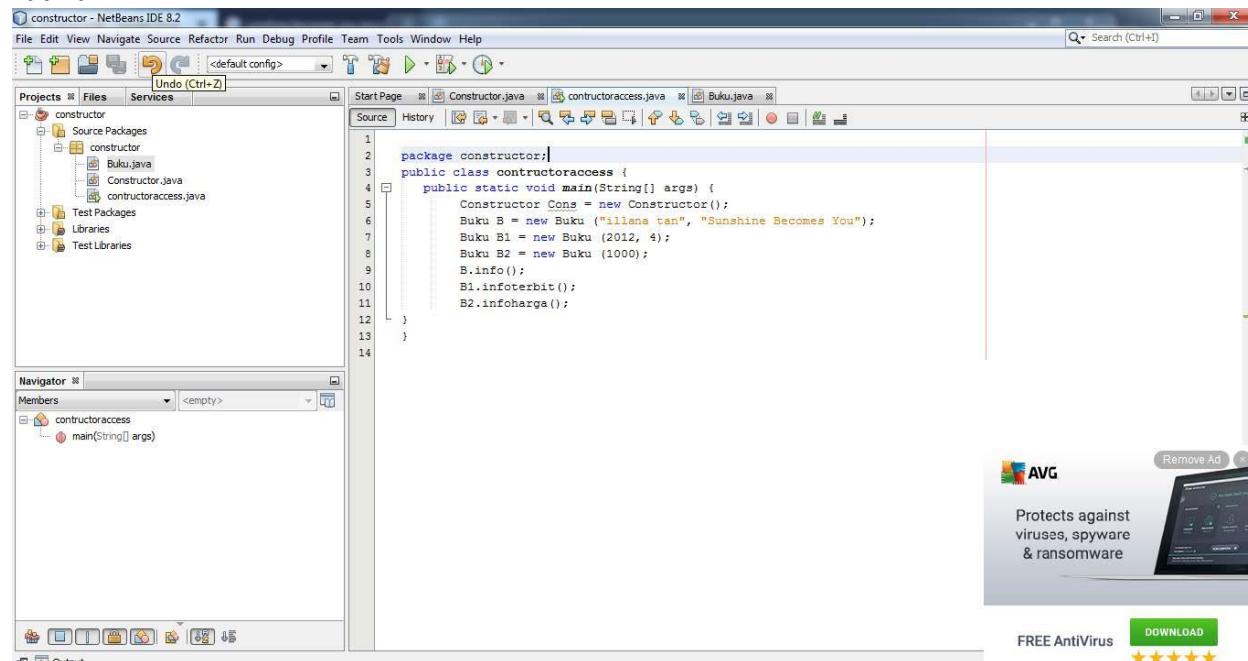
Hasil Rata-rata = 5

D:\>

Line 5, Column 19 Tab Size: 4 Java

Modul 5

Latihan

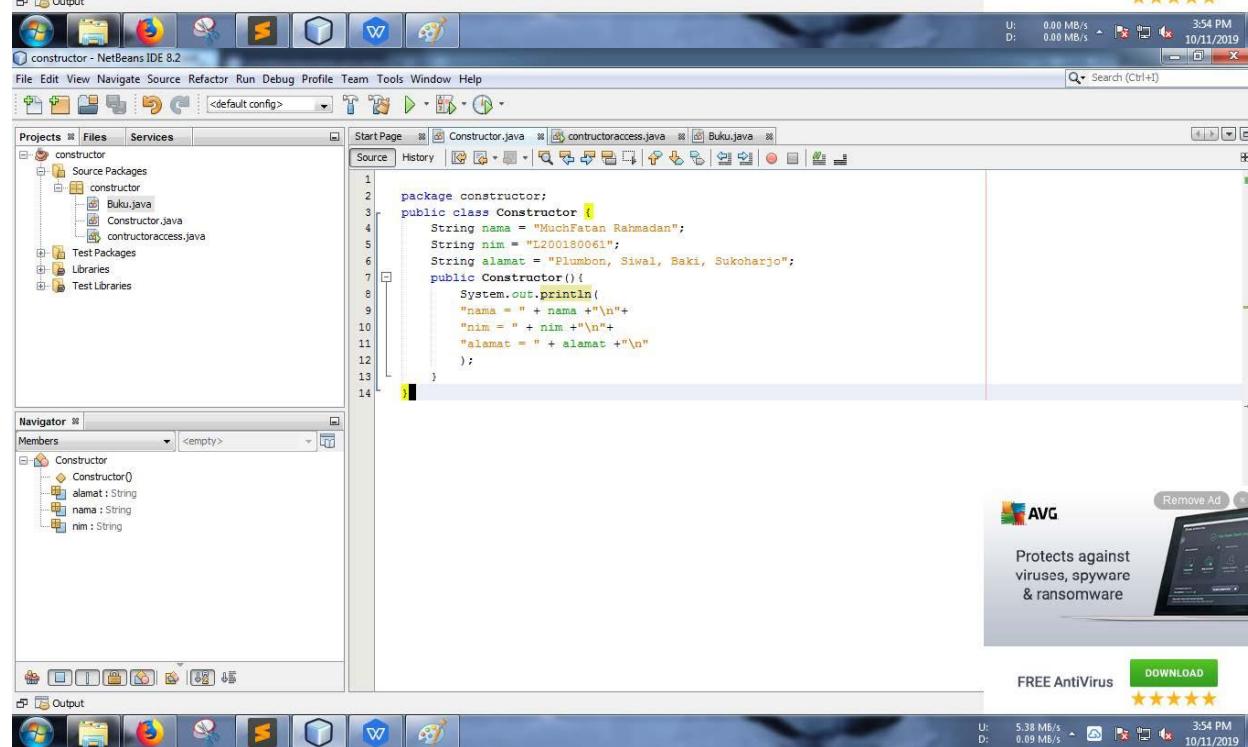


The screenshot shows the NetBeans IDE 8.2 interface with the following details:

- Projects:** A project named "constructor" is selected, containing Source Packages (constructor), Test Packages, Libraries, and Test Libraries.
- Navigator:** Shows the members of the "constructoraccess" class, specifically the main method.
- Source Editor:** Displays the following Java code:

```
1 package constructor;
2 public class constructoraccess {
3     public static void main(String[] args) {
4         Constructor Cons = new Constructor();
5         Buku B = new Buku ("illana tan", "Sunshine Becomes You");
6         Buku B1 = new Buku (2012, 4);
7         Buku B2 = new Buku (1000);
8         B.info();
9         B1.infoterbil();
10        B2.infoharga();
11    }
12 }
13
14
```

A sidebar advertisement for AVG AntiVirus Free is visible on the right.



The screenshot shows the NetBeans IDE 8.2 interface with the following details:

- Projects:** A project named "constructor" is selected, containing Source Packages (constructor), Test Packages, Libraries, and Test Libraries.
- Navigator:** Shows the members of the "Constructor" class, specifically the constructor.
- Source Editor:** Displays the following Java code:

```
1 package constructor;
2 public class Constructor {
3     String nama = "MuchFatan Rahmadan";
4     String nim = "1200180061";
5     String alamat = "Plumbon, Siwal, Baki, Sukoharjo";
6     public Constructor() {
7         System.out.println(
8             "nama = " + nama +"\n"+
9             "nim = " + nim +"\n"+
10            "alamat = " + alamat +"\n"
11        );
12    }
13
14
```

A sidebar advertisement for AVG AntiVirus Free is visible on the right.

constructor - NetBeans IDE 8.2

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

Output - constructor (run)

```

run:
nama = MuchFatan Rahmadan
nim = L200180061
alamat = Plumbon, Simal, Eaki, Sukoharjo

Nama Pengarang = illana tan
Judul Buku = Sunshine Becomes You

Tahun Terbit = 2012
Cetakan Ke - 4

Harga = 1000.0

BUILD SUCCESSFUL (total time: 0 seconds)

```

Output

constructor - NetBeans IDE 8.2

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

Projects Files Services

Start Page

Source History

Constructor.java

```

public Buku(double hargajual){
    this.hargajual = hargajual;
}

public void info(){
    System.out.println(
        "Nama Pengarang = " + namapengarang + "\n" +
        "Judul Buku = " + judulBuku + "\n");
}

public void infoterbit(){
    System.out.println(
        "Tahun Terbit = " + tahunTerbit + "\n" +
        "Cetakan Ke = " + cetakanke + "\n");
}

public void infoharga(){
    System.out.println(
        "Harga = " + hargajual + "\n");
}

```

Buku

- Buku(String namapengarang, String judulBuku)
- Buku(int tahunTerbit, int cetakanke)
- Buku(double hargajual)

Members

- info()
- infoharga()
- infoterbit()
- cetakanke : int
- hargajual : double
- judulBuku : String
- namapengarang : String
- tahunTerbit : int

Output

U: 2.82 MB/s D: 0.06 MB/s 3:55 PM 10/11/2019

AVG

Protects against viruses, spyware & ransomware

FREE AntiVirus DOWNLOAD ★★★★★

U: 0.21 MB/s D: 0.03 MB/s 3:54 PM 10/11/2019

Tugas

The screenshot shows a Sublime Text interface with two open files and a Command Prompt window.

File 1: tugas5.java

```
1 public class tugas5 {
2     String nama = "Anang";
3     int nim;
4
5     public tugas5(){
6         System.out.println("Nama = " + nama);
7     }
8
9     public tugas5(int nim){
10        this.nim = nim;
11    }
12
13     public void info(){
14         System.out.println("NIM = " + nim);
15     }
16 }
```

File 2: aksesDataDiri.java

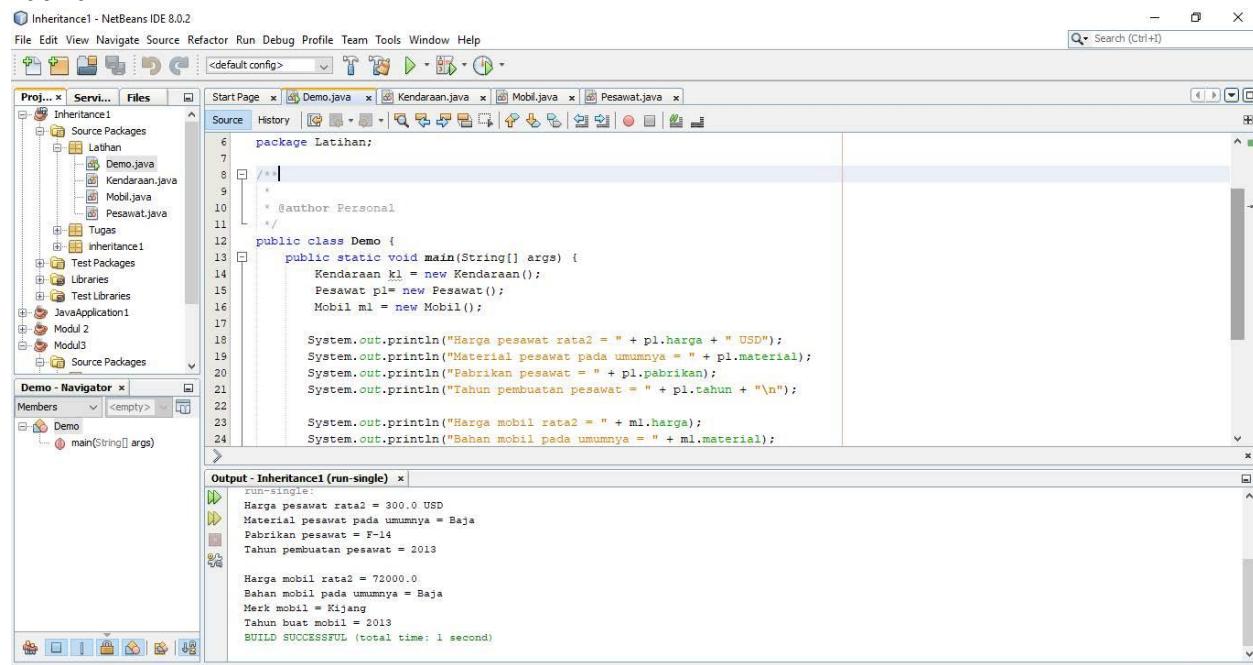
```
1 public class aksesDataDiri {
2     public static void main(String[] args){
3         tugas5 data1 = new tugas5();
4         tugas5 data2 = new tugas5(200180063);
5
6         data2.info();
7     }
8 }
```

Command Prompt Output:

```
D:\>javac tugas5.java
D:\>javac aksesDataDiri.java
D:\>java aksesDataDiri
Nama = Anang
NIM = 200180063
D:\>
```

Modul 6

Latihan



Inheritance1 - NetBeans IDE 8.0.2

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

Start Page x Demo.java x Kendaraan.java x Mobil.java x Pesawat.java x

Source History |

Proj... x Servi... x Files x Inheritance1
↳ Source Packages
↳ Lahan
↳ Demo.java
↳ Kendaraan.java
↳ Mobil.java
↳ Pesawat.java
↳ Tugas
↳ inheritance1
↳ Test Packages
↳ Libraries
↳ Test Libraries
↳ JavaApplication1
↳ Modul 2
↳ Modul3
↳ Source Packages

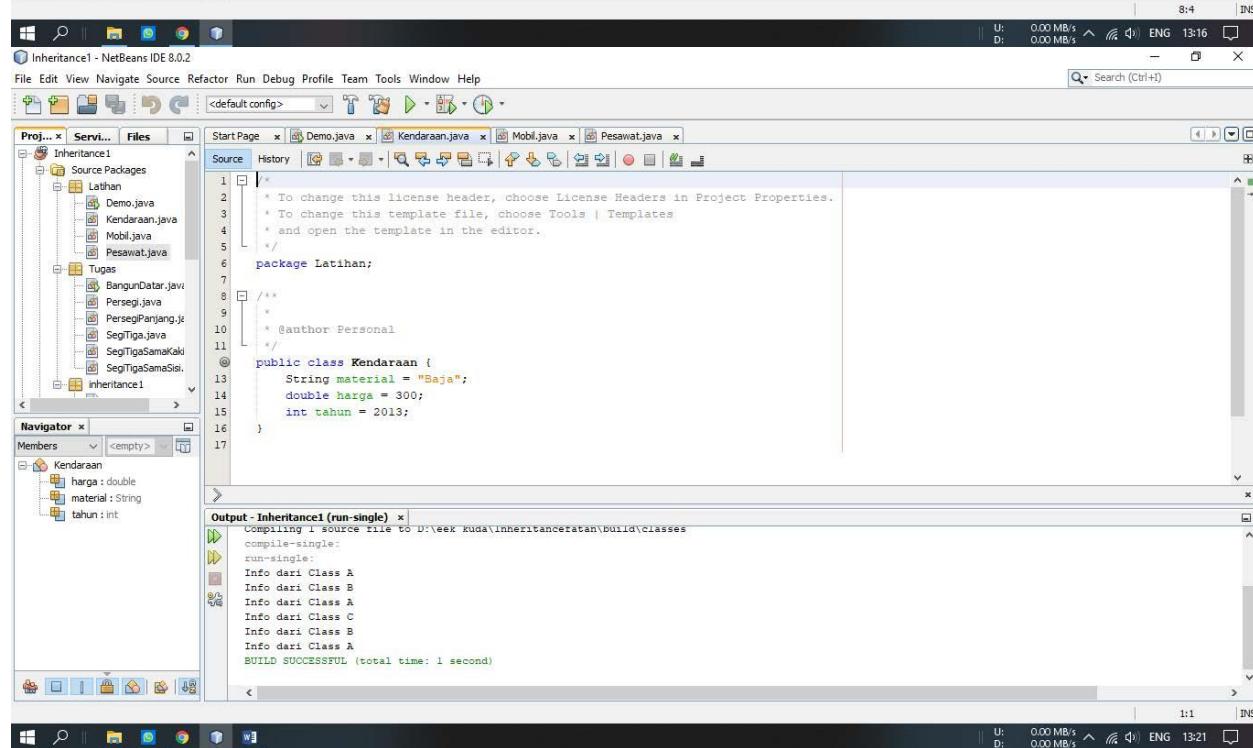
Demo - Navigator x
Members v <empty>

Demo
↳ main(String[] args)

Source Packages
Lahan
Demo.java
Kendaraan.java
Mobil.java
Pesawat.java
Tugas
inheritance1
Test Packages
Libraries
Test Libraries
JavaApplication1
Modul 2
Modul3
Source Packages

Output - Inheritance1 (run-single) x
run-single
Harga pesawat rata2 = 300.0 USD
Material pesawat pada umumnya = Baja
Fabrikiran pesawat = F-14
Tahun pembuatan pesawat = 2013

Harga mobil rata2 = 72000.0
Bahan mobil pada umumnya = Baja
Merk mobil = Kijang
Tahun buat mobil = 2013
BUILD SUCCESSFUL (total time: 1 second)



Inheritance1 - NetBeans IDE 8.0.2

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

Start Page x Demo.java x Kendaraan.java x Mobil.java x Pesawat.java x

Source History |

Proj... x Servi... x Files x Inheritance1
↳ Source Packages
↳ Lahan
↳ Demo.java
↳ Kendaraan.java
↳ Mobil.java
↳ Pesawat.java
↳ Tugas
↳ BangunDatar.java
↳ Persegi.java
↳ Persegipanjang.jk
↳ Segitiga.java
↳ SegitigasamaKali
↳ SegitigasamaSisi
↳ inheritance1
↳ inheritance1
↳ Test Packages
↳ Libraries
↳ Test Libraries
↳ JavaApplication1
↳ Modul 2
↳ Modul3
↳ Source Packages

Navigator x
Members v <empty>

Kendaraan
harga : double
material : String
tahun : int

Source Packages
Lahan
Demo.java
Kendaraan.java
Mobil.java
Pesawat.java
Tugas
BangunDatar.java
Persegi.java
Persegipanjang.jk
Segitiga.java
SegitigasamaKali
SegitigasamaSisi
inheritance1
inheritance1
Test Packages
Libraries
Test Libraries
JavaApplication1
Modul 2
Modul3
Source Packages

Output - Inheritance1 (run-single) x
Compiling 1 source file to D:\veek kudal\Inheritance\atian\BUILD\classes
compile-single:
run-single:
Info dari Class A
Info dari Class B
Info dari Class A
Info dari Class C
Info dari Class B
Info dari Class A
BUILD SUCCESSFUL (total time: 1 second)

The screenshot shows the NetBeans IDE interface with the title "Inheritance1 - NetBeans IDE 8.0.2". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help. The toolbar has icons for file operations like New, Open, Save, Cut, Copy, Paste, Find, and Run. The Project Explorer on the left shows "Inheritance1" with "Source Packages" containing "Latihan" (with files Demo.java, Kendaraan.java, Mobil.java, Pesawat.java) and "Tugas" (with files BangunDatar.java, Persegi.java, PersegiPanjang.java, Segitiga.java, SegitigaSamakaki.java, SegitigaSamaSisi.java). The "navigator" panel shows members of the "Mobil" class from the "Kendaraan" package. The main editor window displays Java code for "Mobil.java":

```
1  /*
2   * To change this license header, choose License Headers in Project Properties.
3   * To change this template file, choose Tools | Templates.
4   * and open the template in the editor.
5   */
6
7 package Latihan;
8
9 /**
10  *
11  * @author Personal
12  */
13 public class Mobil extends Kendaraan {
14     String merk = "Kijang";
15     double harga = 72000;
16 }
```

The Output window at the bottom shows the build process:

```
Compiling 1 source file to D:\eek Kuda\Inheritance\Latihan\Build\classes
compile-single:
run-single:
Info dari Class A
Info dari Class B
Info dari Class A
Info dari Class C
Info dari Class B
Info dari Class A
BUILD SUCCESSFUL (total time: 1 second)
```

The screenshot shows the NetBeans IDE interface with the title "Inheritance1 - NetBeans IDE 8.0.2". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help. The toolbar has icons for file operations like Open, Save, and Build. The Project Explorer on the left shows packages "Latihan" and "Tugas" under "Inheritance1", containing various Java files like Demo.java, Kendaraan.java, Mobil.java, Pesawat.java, BangunDatar.java, Persegi.java, PersegiPanjang.java, Segitiga.java, SegiTigaSamaKaki.java, SegiTigaSamaSisi.java, and inheritance1.java. The Navigator pane shows members "material : String" and "pabrik : String". The main editor window displays the code for Pesawat.java:

```
1  /*
2   * To change this license header, choose License Headers in Project Properties.
3   * To change this template file, choose Tools | Templates.
4   * and open the template in the editor.
5   */
6  package Latihan;
7
8  /**
9   *
10  * @author Personal
11  */
12 public class Pesawat extends Kendaraan {
13     String pabrik = "F-14";
14     String material = "Baja";
15 }
16
```

The Output window at the bottom shows the build process and results:

```
Output - Inheritance1 (run-single) x
Compiling 1 source file to D:\seek kuda\Inheritance\latihan\Build\classes
compile-single:
run-single:
Info dari Class A
Info dari Class B
Info dari Class A
Info dari Class C
Info dari Class B
Info dari Class A
BUILD SUCCESSFUL (total time: 1 second)
```

Tugas

Inheritance1 - NetBeans IDE 8.0.2

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

Proj... Servi... Files

Inheritance1

Source Packages

- Lahan
 - Demo.java
 - Kendaraan.java
 - Mobil.java
 - Pesawat.java
- Tugas
 - BangunDatar.java
 - Persegi.java
 - PersegiPanjang.java
 - SegiTiga.java
 - SegiTigaSamaKaki.java
 - SegiTigaSamaSisi.java

lues - Navigator

Members

- BangunDatar
 - hitungKeliling()
 - hitungLuas()
 - main(String[] args)
 - kelling : double
 - luas : double

<default config>

Source History

Code Editor (main() method in BangunDatar.java):

```
18     protected void hitungKeliling(){
19         System.out.println(kelling);
20     }
21
22
23     public static void main(String[] args){
24         Persegi persegi = new Persegi();
25         persegi.luas();
26         persegi.keliling();
27
28         PersegiPanjang P1 = new PersegiPanjang();
29         P1.luas();
30     }
31 }
32 }
```

Output - Inheritance1 (run-single) :

```
Detected: D:\eek kuda\Inheritancefatan\Build\Built-Jar.properties
deps-jar:
Updating property file: D:\eek kuda\Inheritancefatan\build\built-jar.properties
Compiling 1 source file to D:\eek kuda\Inheritancefatan\build\classes
compile-single:
run-single:
Luas persegi : 2500.0
Kelling persegi : 200.0
Luas: 200.0cm
BUILD SUCCESSFUL (total time: 1 second)
```

13:27

The screenshot shows the NetBeans IDE interface with the title bar "Inheritance1 - NetBeans IDE 8.0.2". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, and Help. The toolbar has icons for New Project, Open Project, Save, Undo, Redo, Cut, Copy, Paste, Find, Replace, and Run. The Navigator panel on the left lists projects and source packages. The main editor window displays the code for the `Persegi.java` class, which extends `BangunDatar`. The code calculates the area and perimeter of a square.

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package Tugas;

/**
 *
 * @author Personal
 */
public class Persegi extends BangunDatar {
    protected double sisi = 50;
    void luas(){
        luas = sisi*sisi;
        System.out.println("Luas persegi : " + luas);
    }
    void keliling(){
        keliling = sisi+sisi+sisi+sisi;
        System.out.println("Keliling persegi : " + keliling);
    }
}
```

Inheritance1 - NetBeans IDE 8.0.2

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

Search (Ctrl+F)

Project Navigator

- Inheritance1
- Source Packages
 - Lahan
 - Demo.java
 - Kendaraan.java
 - Mobil.java
 - Pesawat.java
 - Tugas
 - BangunDatar.java
 - Persegi.java
 - Persegipanjang.java
 - Segitiga.java
 - SegitigasamaKaki.java
 - SegitigasamaSisi.java
 - inheritance1
 - A.java
 - B.java
 - C.java
 - InheritanceTest.java
 - Pegawai.java
 - Programmer.java
 - Teknisi.java
 - Test Packages
 - Libraries
 - Test Libraries
 - JavaApplication1
 - Modul 2
 - Modul 3
 - Source Packages
 - <default package>
 - Akreditasi.java
 - Demo.java
 - Lokal.java

Output

Start Page BangunDatar.java Persegi.java Persegipanjang.java Segitiga.java SegitigasamaKaki.java SegitigasamaSisi.java

Source History

```
1 /*  
2  * To change this license header, choose License Headers in Project Properties.  
3  * To change this template file, choose Tools | Templates  
4  * and open the template in the editor.  
5 */  
6 package Tugas;  
7  
8 /**  
9  *  
10 * @author Personal  
11 */  
12 public class Persegipanjang extends BangunDatar {  
13     protected int panjang = 10;  
14     protected double lebar = 20;  
15     void luas(){  
16         luas = panjang*lebar;  
17         System.out.println("Luas: "+luas+"Cm");  
18     }  
19 }  
20
```

1 /*
2 * To change this license header, choose License Headers in Project Properties.
3 * To change this template file, choose Tools | Templates
4 * and open the template in the editor.
5 */
6 package Tugas;
7
8 /**
9 *
10 * @author Personal
11 */
12 public class Segitiga extends BangunDatar{
13 protected double alas;
14 }
15

U: 0.00 MB/s D: 0.00 MB/s ENG 13:22

Inheritance1 - NetBeans IDE 8.0.2

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

default config > T S D E W

Proj... x Servi... Files Start Page x BangunDatar.java x Persegi.java x PersegiPanjang.java x SegTiga.java x SegTigaSamaKaki.java x SegTigaSamaSisi.java x

Navigator Inheritance1 Source Packages Lahan Demo.java Kendaraan.java Mobil.java Pesawat.java Tugas BangunDatar.java Persegi.java PersegiPanjang.java SegTiga.java SegTigaSamaKaki.java SegTigaSamaSisi.java inheritance1 A.java B.java C.java InheritanceTest.java Pegawai.java Programmer.java Teknisi.java Test Packages Libraries Test Libraries JavaApplication1 Modul 2 Modul 3 Source Packages <default package> Akreditasi.java Demo.java Lokal.java Output

Source History

```
1 /*  
2  * To change this license header, choose License Headers in Project Properties.  
3  * To change this template file, choose Tools | Templates  
4  * and open the template in the editor.  
5 */  
6 package Tugas;  
7  
8 /**  
9  *  
10 * @author Personal  
11 */  
12 public class SegiTigaSamaKaki extends SegiTiga {  
13     protected double sisimiring;  
14 }  
15
```

U: 0.00 MB/s D: 0.00 MB/s ENG 13:22

Inheritance1 - NetBeans IDE 8.0.2

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

default config > T S D E W

Proj... x Servi... Files Start Page x BangunDatar.java x Persegi.java x PersegiPanjang.java x SegTiga.java x SegTigaSamaKaki.java x SegTigaSamaSisi.java x

Navigator Inheritance1 Source Packages Lahan Demo.java Kendaraan.java Mobil.java Pesawat.java Tugas BangunDatar.java Persegi.java PersegiPanjang.java SegTiga.java SegTigaSamaKaki.java SegTigaSamaSisi.java inheritance1 A.java B.java C.java InheritanceTest.java Pegawai.java Programmer.java Teknisi.java Test Packages Libraries Test Libraries JavaApplication1 Modul 2 Modul 3 Source Packages <default package> Akreditasi.java Demo.java Lokal.java Output

Source History

```
1 /*  
2  * To change this license header, choose License Headers in Project Properties.  
3  * To change this template file, choose Tools | Templates  
4  * and open the template in the editor.  
5 */  
6 package Tugas;  
7  
8 /**  
9  *  
10 * @author Personal  
11 */  
12 public class SegiTigaSamaSisi extends SegiTiga {  
13     protected double sisi;  
14 }  
15
```

U: 0.00 MB/s D: 0.00 MB/s ENG 13:22

Modul 7

The screenshot displays two Java code editors in the NetBeans IDE 8.2 interface. Both editors are part of a project named "Encapsulation".

Top Editor (Karyawan.java):

```
3  * to change this template file, choose Tools | Templates.
4  *
5  * and open the template in the editor.
6  */
7  package encapsulation;
8
9  /**
10   * Author LABPLI-1
11  */
12 public class Karyawan {
13     private String nama;
14     private float gaji;
15     private int usia;
16
17     public String getNama() {
18         return nama;
19     }
20     public void setNama(String nama) {
21         this.nama = nama;
22     }
23     public float getGaji() {
24         return gaji;
25     }
26     public void setGaji(float gaji) {
27         this.gaji = gaji;
28     }
29     public int getUsia() {
30         return usia;
31     }
32     public void setUsia(int usia) {
33         this.usia = usia;
34     }
35 }
```

Bottom Editor (Manager.java):

```
12 public class Manager extends Karyawan {
13     private String namaM;
14     private float gajiM;
15     private int usiaM;
16     private String nimM;
17     private String hobiiM;
18     private float jamKerja = 7.5f;
19
20     public String getNamaM() {
21         return namaM;
22     }
23     public void setNamaM(String namaM) {
24         this.namaM = namaM;
25     }
26     public float getGajiM() {
27         return gajiM * 2;
28     }
29     public void setGajiM(float gajiM) {
30         this.gajiM = gajiM;
31     }
32     public float getUsiaM() {
33         return usiaM;
34     }
35     public void setUsiaM(int usiaM) {
36         this.usiaM = usiaM;
37     }
38     public String getnimM() {
39         return nimM;
40     }
41     public void setnimM(String nimM) {
42         this.nimM = nimM;
43     }
44     public String gethobiiM() {
45         return hobiiM;
46     }
47     public void sethobiiM(String hobiiM) {
48         this.hobiiM = hobiiM;
49     }
50     public float getjamKerja() {
51         return jamKerja;
52     }
53     public void setjamKerja(float jamKerja) {
54 }
```

Encapsulation - NetBeans IDE 8.2

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

Projects Karyawan.java KaryawanDemo.java Manager.java

Source History <default config>

```

12 public class KaryawanDemo {
13     public static void main(String[] args){
14         Karyawan k1 = new Karyawan();
15         k1.setNama("FATAN");
16         k1.setGaji(25000);
17         k1.setUstisah(19);
18
19         System.out.println(k1.getNama());
20         System.out.println(k1.getGaji());
21         System.out.println(k1.getUstisah());
22
23         Manager m1 = new Manager();
24         m1.setNama("Facan Rahmadan");
25         m1.setGajiM(50000);
26         m1.setUstisah(21);
27         m1.setnim("L200180061");
28         m1.sethobiM("Makan");
29         m1.setjamKerja(8.5f);
30
31         System.out.println(m1.getNamaM());
32         System.out.println(m1.getGajiM());
33         System.out.println(m1.getUstisahM());
34         System.out.println(m1.getnimM());
35         System.out.println(m1.gethobiM());
36         System.out.println(m1.getjamKerja());
37
38         Manager m2 = new Manager();
39         m2.setNamaM("Firgo");
40         m2.setGajiM(50000);
41         m2.setUstisah(21);
42         m2.setnimM("L200180063");
43         m2.sethobiM("Makan");
44         m2.setjamKerja(8.5f);
45
46         System.out.println(m2.getNamaM());
47         System.out.println(m2.getGajiM());
48         System.out.println(m2.getUstisahM());
49         System.out.println(m2.getnimM());
50         System.out.println(m2.gethobiM());
51         System.out.println(m2.getjamKerja());
52
53         Manager m3 = new Manager();
54         m3.setNamaM("capricon");
55         m3.setGajiM(50000);
56         m3.setUstisah(21);
57         m3.setnimM("L200180064");
58         m3.sethobiM("Makan");
59         m3.setjamKerja(8.5f);
60
61         System.out.println(m3.getNamaM());
62         System.out.println(m3.getGajiM());
63         System.out.println(m3.getUstisahM());
64         System.out.println(m3.getnimM());
65         System.out.println(m3.gethobiM());
66         System.out.println(m3.getjamKerja());
67
encapsulation.KaryawanDemo >

```

12:28 3:32 PM 11/15/2019

Encapsulation - NetBeans IDE 8.2

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

Projects Karyawan.java KaryawanDemo.java Manager.java

Source History <default config>

```

37
38         Manager m2 = new Manager();
39         m2.setNamaM("Firgo");
40         m2.setGajiM(50000);
41         m2.setUstisah(21);
42         m2.setnimM("L200180063");
43         m2.sethobiM("Makan");
44         m2.setjamKerja(8.5f);
45
46         System.out.println(m2.getNamaM());
47         System.out.println(m2.getGajiM());
48         System.out.println(m2.getUstisahM());
49         System.out.println(m2.getnimM());
50         System.out.println(m2.gethobiM());
51         System.out.println(m2.getjamKerja());
52
53         Manager m3 = new Manager();
54         m3.setNamaM("capricon");
55         m3.setGajiM(50000);
56         m3.setUstisah(21);
57         m3.setnimM("L200180064");
58         m3.sethobiM("Makan");
59         m3.setjamKerja(8.5f);
60
61         System.out.println(m3.getNamaM());
62         System.out.println(m3.getGajiM());
63         System.out.println(m3.getUstisahM());
64         System.out.println(m3.getnimM());
65         System.out.println(m3.gethobiM());
66         System.out.println(m3.getjamKerja());
67
encapsulation.KaryawanDemo >

```

12:28 3:33 PM 11/15/2019



Encapsulation - NetBeans IDE 8.2

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

Projects Files Services

Karyawan.java KaryawanDemo.java Manager.java

```
Source History <default config> T G B D E S
```

```
Manager m1 = new Manager();
m1.setNamaM("Gemini");
m1.setGajiM(50000);
m1.setUsiaM(21);
m1.setnimM("L200180065");
m1.sethobiM("Makan");
m1.setjamKerja(8.5f);

System.out.println(m1.getNamaM());
System.out.println(m1.getGajiM());
System.out.println(m1.getUsiaM());
System.out.println(m1.getnimM());
System.out.println(m1.gethobiM());
System.out.println(m1.getjamKerja());
```

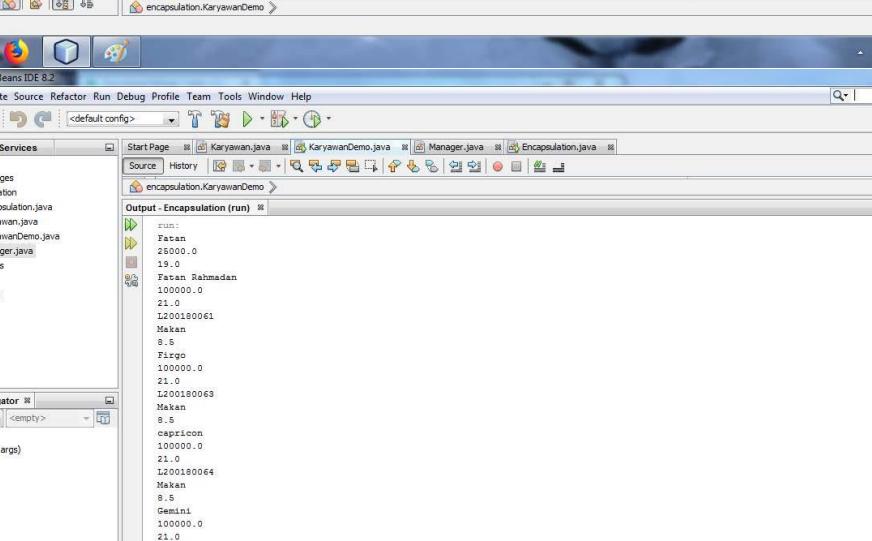
```
Manager m5 = new Manager();
m5.setNamaM("Sagittarius");
m5.setGajiM(50000);
m5.setUsiaM(21);
m5.setnimM("L200180069");
m5.sethobiM("Makan");
m5.setjamKerja(8.5f);

System.out.println(m5.getNamaM());
System.out.println(m5.getGajiM());
System.out.println(m5.getUsiaM());
System.out.println(m5.getnimM());
System.out.println(m5.gethobiM());
System.out.println(m5.getjamKerja());
```

KaryawanDemo

encapsulation.KaryawanDemo

12:28 11/15/2019



Encapsulation - NetBeans IDE 8.2

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

Projects Files Services

Start Page Karyawan.java KaryawanDemo.java Manager.java Encapsulation.java

encapsulation.KaryawanDemo

Output - Encapsulation (run) *

```
run:
Fatam
25000.0
19.0
Fatam Rahmadan
100000.0
21.0
L200180061
Makan
8.5
Firgo
100000.0
21.0
L200180063
Makan
8.5
capricon
100000.0
21.0
L200180064
Makan
8.5
Gemini
100000.0
21.0
L200180065
Makan
8.5
Sagittarius
100000.0
21.0
L200180069
Makan
8.5
Sagittarius
100000.0
21.0
L200180069
...
```

KaryawanDemo - Navigator

Members <empty>

KaryawanDemo main(String[] args)

Finished building Encapsulation (run).

12:28 11/15/2019

Modul 8

The screenshot shows two instances of the NetBeans IDE 8.2 interface. Both windows display the same Java code for testing polymorphism.

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package modul.pkg8.fatan;

/**
 *
 * @author LABRPL
 */
public class TestPolymorphism{
    public static void main(String[] args){
        Kucing k1 = new Kucing();
        k1.setNama("Tom");
        System.out.println(k1.getNama());
        k1.Makanan();
        k1.Perilaku();

        Anjing a1 = new Anjing();
        a1.setNama("BULL");
        System.out.println(a1.getNama());
        a1.Makanan();
        a1.Perilaku();
    }
}
```

The output window for both runs shows the following results:

```
run:
Tom
Mengukai Ikan
Meocow.... Meocow...
BULL
Menyukai Daging dan Tulang
Guk...Guk...Guk.

BUILD SUCCESSFUL (total time: 0 seconds)
```

The system tray at the bottom of the screen shows icons for various applications including a clock displaying 15:16 and a date of 22/11/2019.

Modul 8 fatan - NetBeans IDE 8.2

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

<default config>

Proj... Services Files StartPage Persegi.java TestPolyorphism.java CostumerData.java Pet.java Kucing.java Anjing.java

Source History > Search (Ctrl+F)

```

1 /*
2  * To change this license header, choose License Headers in Project Properties.
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6 package modul.pkg8.fatan;
7
8 /**
9  *
10 * @author LABRPL
11 */
12 public class Kucing extends Pet{
13     public void Perilaku(){
14         System.out.println("Meocow... Meocow...");
15     }
16     public void Makanan(){
17         System.out.println("Menyukai Ikan");
18     }
19 }

```

Navigator Members <empty>

Kucing :: Pet

- Makanan()
- Perilaku()

Output - Modul 8 fatan (run) :

```

run:
Tom
Menyukai Ikan
Meocow... Meocow...
BULL
Menyukai Daging dan Tulang
Guk...Guk...Guk...
BUILD SUCCESSFUL (total time: 0 seconds)

```

Notifications

Modul 8 fatan - NetBeans IDE 8.2

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

<default config>

Proj... Services Files StartPage TestPolyorphism.java CostumerData.java Pet.java Kucing.java Anjing.java

Source History > Search (Ctrl+F)

```

1 /*
2  * To change this license header, choose License Headers in Project Properties.
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6 package modul.pkg8.fatan;
7
8 /**
9  *
10 * @author LABRPL
11 */
12 public class Anjing extends Pet{
13     public void Perilaku(){
14         System.out.println ("Guk...Guk...");
15     }
16     public void Makanan(){
17         System.out.println ("Menyukai Daging dan Tulang");
18     }
19 }

```

Navigator Members <empty>

Anjing :: Pet

- Makanan()
- Perilaku()

Output - Modul 8 fatan (run) :

```

run:
Tom
Menyukai Ikan
Meocow... Meocow...
BULL
Menyukai Daging dan Tulang
Guk...Guk...
BUILD SUCCESSFUL (total time: 0 seconds)

```

Notifications

Hewan - NetBeans IDE 8.2

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

Source History > < Search (Ctrl+F)

Project Services Files < default config >

Start Page Demo.java Bang.java Hewan.java Kucing.java

Source Previous Bookmark

```
1 /* To change this license header, choose License Headers in Project Properties.
2 * To change this template file, choose Tools | Templates
3 * and open the template in the editor.
4 */
5 package hewan;
6
7 /**
8 *
9 * @author LABRPL
10 */
11 public class Hewan {
12     public void jalan() {
13         System.out.println("Hewan Bisa berjalan");
14     }
15 }
16
17 }
```

Output - Hewan (run) :

```
RUN:
Kucing bisa berjalan dengan berlari
Slang bisa berjalan dan Terbang
BUILD SUCCESSFUL (total time: 0 seconds)
```

Hewan - NetBeans IDE 8.2

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

Source History > < Search (Ctrl+F)

Project Services Files < default config >

Start Page Demo.java Bang.java Hewan.java Kucing.java

Source Shift Line Right (Alt+Shift+RIGHT)

```
1 /* To change this license header, choose License Headers in Project Properties.
2 * To change this template file, choose Tools | Templates
3 * and open the template in the editor.
4 */
5 package hewan;
6
7 /**
8 *
9 * @author LABRPL
10 */
11 public class Kucing extends Hewan {
12     public void jalan() {
13         System.out.println("Kucing bisa berjalan dengan" + " dan berlari");
14     }
15 }
16
17 }
```

Output - Hewan (run) :

```
RUN:
Kucing bisa berjalan dengan berlari
Slang bisa berjalan dan Terbang
BUILD SUCCESSFUL (total time: 0 seconds)
```

Hewan - NetBeans: IDE 8.2

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

<default config>

Project Services Files

Start Page Demo.java Bang.java Hewan.java Kucing.java

Source History Search

Source

```
1 /* To change this license header, choose License Headers in Project Properties.
2 * To change this template file, choose Tools | Templates
3 * and open the template in the editor.
4 */
5 package hewan;
6
7 /**
8 *
9 * @author LABRPL
10 */
11 public class Elang extends Hewan {
12     public void jalan(){
13         System.out.println("Elang bisa berjalan " + "dan Terbang");
14     }
15 }
16
17
```

Navigator

Members

Elang :: Hewan

jalan() : Hewan

Output - Hewan (run)

RUN:

```
Kucing bisa berjalan dengan berlari
Elang bisa berjalan dan Terbang
BUILD SUCCESSFUL (total time: 0 seconds)
```

Hewan - NetBeans: IDE 8.2

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

<default config>

Project Services Files

Start Page Demo.java Bang.java Hewan.java Kucing.java

Source History Search

Source

```
1 /* To change this license header, choose License Headers in Project Properties.
2 * To change this template file, choose Tools | Templates
3 * and open the template in the editor.
4 */
5 package hewan;
6
7 /**
8 *
9 * @author LABRPL
10 */
11 public class Demo {
12     public static void main(String[] args){
13         Kucing k1 = new Kucing();
14         k1.jalan();
15
16         Elang e1 = new Elang();
17         e1.jalan();
18     }
19 }
20
21
```

Navigator

Members

Demo

main(String[] args)

Output - Hewan (run)

RUN:

```
Kucing bisa berjalan dengan berlari
Elang bisa berjalan dan Terbang
BUILD SUCCESSFUL (total time: 0 seconds)
```

Modul8 - NetBeans IDE 8.0.2

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

<default config>

Projects x Start Page x BankUmum.java x BankSyariah.java x BankPribadi.java x BankPasar.java x Bank.java x BankDemo.java x

Source History

```

13 public class BankDemo {
14     public static void main(String[] args) {
15         Bank bpr = new BankPribadi();
16         Bank bu = new BankUmum();
17         Bank bp = new BankPasar();
18         Bank bs = new BankSyariah();
19
20         System.out.println(
21             "Bank Pribadi :" + bpr.rasioBunga() +"\n"+
22             "Bank Umum :" + bu.rasioBunga() +"\n"+
23             "Bank Pasar :" + bp.rasioBunga() +"\n"+
24             "Bank Syariah :" + bs.rasioBunga()
25         );
26
27         BankUmum bkpr = new BankPasar();
28         BankUmum bksyr = new BankSyariah();
29
30         System.out.println(
31             "Bank Pasar :" + bkpr.rasioBunga() +"\n"+
32             "Bank Syariah :" + bksyr.rasioBunga()
33         );
34     }
35 }
```

Output - Modul8 (run-single) x

```

run-single:
Bank Pribadi :7
Bank Umum :9
Bank Pasar :3
Bank Syariah :0
Bank Pasar :3
Bank Syariah :0
BUILD SUCCESSFUL (total time: 1 second)
```

360 TOTAL SECURITY

(G) 19.7G/28.6G

U: 0.00 MB/s D: 0.00 MB/s ENG 21:23

8:1 IN8

Modul8 - NetBeans IDE 8.0.2

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

<default config>

Projects x Start Page x BankUmum.java x BankSyariah.java x BankPribadi.java x BankPasar.java x Bank.java x BankDemo.java x

Source History

```

1 package Tugas;
2
3 /*
4  * To change this license header, choose License Headers in Project Properties.
5  * To change this template file, choose Tools | Templates
6  * and open the template in the editor.
7 */
8
9 /**
10  * 
11  * @author Asus
12  */
13 public class Bank {
14     protected int rasioBunga(){
15         return 5;
16     }
17 }
```

Output - Modul8 (run-single) x

```

run-single:
Bank Pribadi :7
Bank Umum :9
Bank Pasar :3
Bank Syariah :0
Bank Pasar :3
Bank Syariah :0
BUILD SUCCESSFUL (total time: 1 second)
```

360 TOTAL SECURITY

(G) 19.7G/28.6G

U: 0.00 MB/s D: 0.00 MB/s ENG 21:23

1:1 IN8

Modul8 - NetBeans IDE 8.0.2

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

<default config>

Projects x Start Page x BankUmum.java x BankSyariah.java x BankPribadi.java x BankPasar.java x Bank.java x BankDemo.java x

Source History

```

1 package Tugas;
2
3 /*
4  * To change this license header, choose License Headers in Project Properties.
5  * To change this template file, choose Tools | Templates.
6  * and open the template in the editor.
7 */
8
9 /**
10  * 
11  * @author Asus
12 */
13 public class BankPasar extends BankUmum {
14     protected int rasioBunga(){
15         return 3;
16     }
17 }

```

Output - Modul8 (run-single) x

```

run-single:
Bank Pribadi :7
Bank Umum :9
Bank Pasar :3
Bank Syariah :0
Bank Pasar :3
Bank Syariah :0
BUILD SUCCESSFUL (total time: 1 second)

```

360 TOTAL SECURITY

U: 0.00 MB/s D: 0.00 MB/s ENG 21:23

Modul8 - NetBeans IDE 8.0.2

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

<default config>

Projects x Start Page x BankUmum.java x BankSyariah.java x BankPribadi.java x BankPasar.java x Bank.java x BankDemo.java x

Source History

```

1 package Tugas;
2
3 /*
4  * To change this license header, choose License Headers in Project Properties.
5  * To change this template file, choose Tools | Templates.
6  * and open the template in the editor.
7 */
8
9 /**
10  * 
11  * @author Asus
12 */
13 public class BankPribadi extends Bank {
14     protected int rasioBunga(){
15         return 7;
16     }
17 }

```

Output - Modul8 (run-single) x

```

run-single:
Bank Pribadi :7
Bank Umum :9
Bank Pasar :3
Bank Syariah :0
Bank Pasar :3
Bank Syariah :0
BUILD SUCCESSFUL (total time: 1 second)

```

360 TOTAL SECURITY

U: 0.00 MB/s D: 0.00 MB/s ENG 21:23

Modul8 - NetBeans IDE 8.0.2

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

<default config>

Projects x

- Buy.png
- City.png
- Home.png
- Login.png
- Outl.png
- Plus.png
- options.png
- pbo
- Libraries
- Sempel
- Source Packages
- BG_imager
- sempel
- Libraries
- tugas pak dimas

Navigator x

Members

BankSyariah :: BankUmum
radioBunga0 : int

Source History

```

1 package Tugas;
2
3 /*
4  * To change this license header, choose License Headers in Project Properties.
5  * To change this template file, choose Tools | Templates.
6  * and open the template in the editor.
7 */
8
9 /**
10  *
11  * @author Asus
12 */
13 public class BankSyariah extends BankUmum{
14     protected int radioBunga(){
15         return 0;
16     }
17 }

```

Output - Modul8 (run-single) x

```

run-single:
Bank Pribadi :7
Bank Umum :9
Bank Pasar :3
Bank Syariah :0
Bank Pasar :3
Bank Syariah :0
BUILD SUCCESSFUL (total time: 1 second)

```

360 TOTAL SECURITY

U: 0.00 MB/s D: 0.00 MB/s ENG 21:23

1:1 INS

Modul8 - NetBeans IDE 8.0.2

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

<default config>

Projects x

- Bank.java
- BankDemo.java
- BankPasar.java
- BankPribadi.java
- BankUmum.java
- CustomerDal
- CustomerDal
- PBO
- Source Packages
- Test Packages
- Libraries
- Test Libraries
- PBO
- Source Packages

Navigator x

Members

BankUmum :: Bank
radioBunga0 : int

Source History

```

1 package Tugas;
2
3 /*
4  * To change this license header, choose License Headers in Project Properties.
5  * To change this template file, choose Tools | Templates.
6  * and open the template in the editor.
7 */
8
9 /**
10  *
11  * @author Asus
12 */
13 public class BankUmum extends Bank{
14     protected int radioBunga(){
15         return 9;
16     }
17 }

```

Output - Modul8 (run-single) x

```

run-single:
Bank Pribadi :7
Bank Umum :9
Bank Pasar :3
Bank Syariah :0
Bank Pasar :3
Bank Syariah :0
BUILD SUCCESSFUL (total time: 1 second)

```

360 TOTAL SECURITY

U: 0.00 MB/s D: 0.00 MB/s ENG 21:24

1:1 INS

Modul 9

The screenshot shows two instances of the NetBeans IDE interface. Both instances have a similar layout with tabs for Source, History, and other tools.

Project 1 (Top):

- Source tab displays MethodMain.java:

```
1 // To change this license header, choose License Headers in Project Properties.
2 // To change this template file, choose Tools | Templates
3 // and open the template in the editor.
4 /*
5  * Author Personal
6  */
7 package modul.pkg9.fatan;
8
9 /**
10  * @author Personal
11  */
12 public class PersegiPanjang extends methodAbstract{
13     int panjang = 70;
14     int lebar = 70;
15
16     public int luas(){
17         return panjang*lebar;
18     }
19     public int keliling(){
20         return 2*(panjang+lebar);
21     }
22 }
```

- Output tab shows the results of running the code:

```
Keliling = 208 cm
Luas = 2704 cm

Keliling Persegi Panjang = 100800 cm
Luas Persegi Panjang = 50400 cm

Keliling Jajar Genjang = 31 cm
Luas Jajar Genjang = 60 cm

Keliling Lingkaran = 126 cm
Luas Lingkaran = 1323 cm
Keliling Segitiga = 66 cm
Luas Segitiga = 40 cm
```

Project 2 (Bottom):

- Source tab displays MethodMain.java:

```
1 // To change this license header, choose License Headers in Project Properties.
2 // To change this template file, choose Tools | Templates
3 // and open the template in the editor.
4 /*
5  * Author Personal
6  */
7 package modul.pkg9.fatan;
8
9 /**
10  * @author Personal
11  */
12 public class JajarGenjang extends methodAbstract{
13     int atas = 12;
14     int bawah = 12;
15     int tinggi = 5;
16     int c = 3;
17     int d = 4;
18
19     public int luas(){
20         return atas*tinggi;
21     }
22     public int keliling(){
23         return atas+bawah+c+d;
24     }
25 }
```

- Output tab shows the results of running the code:

```
Keliling = 208 cm
Luas = 2704 cm

Keliling Persegi Panjang = 100800 cm
Luas Persegi Panjang = 50400 cm

Keliling Jajar Genjang = 31 cm
Luas Jajar Genjang = 60 cm

Keliling Lingkaran = 126 cm
Luas Lingkaran = 1323 cm
Keliling Segitiga = 66 cm
Luas Segitiga = 40 cm
```

The screenshot shows the NetBeans IDE interface with the project 'Modul 9 Fatan' open. The 'Lingkaran.java' file is selected in the Project Explorer. The code defines a class 'Lingkaran' that extends 'methodAbstract'. It contains methods for calculating area ('luas') and circumference ('keliling'). The output window shows the results of running the program, which include calculations for various shapes like rectangles, circles, and triangles.

```
1 /*
2  * To change this license header, choose License Headers in Project Properties.
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6 package modul.pkg9.fatan;
7
8 /**
9  * 
10 * @author Personal
11 */
12 public class Lingkaran extends methodAbstract{
13     int r = 21;
14     int phi = 22/7;
15
16     public int luas(){
17         return (phi*r*r);
18     }
19
20     public int keliling(){
21         return 2*phi*r;
22     }
23 }
24
```

Output - Modul 9 Fatan (run)

```
run:
Keliling = 208 cm
Luas = 2704 cm

Kelling Persegi Panjang= 100800 cm
Luas Persegi Panjang = 50400 cm

Kellling Jajar Genjang = 31 cm
Luas Jajar Genjang = 60 cm

Kellling Lingkaran = 126 cm
Luas Lingkaran = 1323 cm
Kellling Segitiga = 66 cm
Luas Segitiga = 40 cm
```

Modul 9 Fatan - NetBeans IDE 8.2

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

<default config>

Proj... Services Files

PersegiPanjang.java JejarGenjang.java Lingkaran.java Segitiga.java MethodMain.java

Source History ▾ ▾ ▾ ▾ ▾ ▾

```
public class MethodMain {
    public static void main(String[] args) {
        Persegi pag = new Persegi();
        System.out.println("Kelling = "+pag.getKell()+" cm");
        System.out.println("Luas = "+pag.getLuas()+" cm"+(n));
        System.out.println();

        PersegiPanjang pp = new PersegiPanjang();
        System.out.println("Kelling Persegi Panjang = "+pp.getKell()+" cm");
        System.out.println("Luas Persegi Panjang = "+pp.getLuas()+" cm"+(n));
        System.out.println();

        JejarGenjang jg = new JejarGenjang();
        System.out.println("Kelling Jejar Genjang = "+jg.getKell()+" cm");
        System.out.println("Luas Jejar Genjang = "+jg.getLuas()+" cm"+(n));
        System.out.println();

        Lingkaran ling = new Lingkaran();
        System.out.println("Kelling Lingkaran = "+ling.getKell()+" cm");
        System.out.println("Luas Lingkaran = "+ling.getLuas()+" cm"+(n));
        System.out.println();

        Segitiga sg = new Segitiga();
        System.out.println("Kelling Segitiga = "+sg.getKell()+" cm");
        System.out.println("Luas Segitiga = "+sg.getLuas()+" cm"+(n));
    }
}
```

Output - Modul 9 Fatan (run)

```
run:
Kelling = 208 cm
Luas = 2704 cm

Kelling Persegi Panjang= 100800 cm
Luas Persegi Panjang = 50400 cm

Kelling Jejar Genjang = 31 cm
Luas Jejar Genjang = 60 cm

Kelling Lingkaran = 126 cm
Luas Lingkaran = 1323 cm
Kelling Segitiga = 56 cm
Luas Segitiga = 40 cm
```

Modul 9 Fatan - NetBeans IDE 8.2

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

<default config>

Proj... Services Files

MethodmanBengRuang.java Balok.java Kubus.java Bola.java Kerucut.java PrismaSegitiga.java MethodMain.java

Source History ▾ ▾ ▾ ▾ ▾ ▾

```
11 L + /
```

Output - Modul 9 Fatan (run)

```
run:
Kelling = 208 cm
Luas = 2704 cm

Kelling Persegi Panjang= 100800 cm
Luas Persegi Panjang = 50400 cm

Kelling Jejar Genjang = 31 cm
Luas Jejar Genjang = 60 cm

Kelling Lingkaran = 126 cm
Luas Lingkaran = 1323 cm
Kelling Segitiga = 56 cm
Luas Segitiga = 40 cm

BUILD SUCCESSFUL (total time: 0 seconds)
```

Notifications

Modul 9 Fatan - NetBeans IDE 8.2

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

cdefault config>

Projects Services Files

MethodmanBangunRuang.java Balok.java Kubus.java Bola.java Kerucut.java PrismaSegitiga.java

Inheritance

JavaApplication3

Mobil

Modul1

Modul 9 Fatan

Source Packages modul.pkg9.fatan

AbstractClass.java Balok.java BangunRuang.java Bola.java JajarGanjang.java Kerucut.java Kubus.java Lingkaran.java MethodDien.java MethodmanBangunRuang Modul9.java Modul9Fatan.java

Navigator Members <empty>

Balok :: BangunRuang

LuasPermukaan(): int : BangunRuang

Volume(): int : BangunRuang

1 /*
2 * To change this license header, choose License Headers in Project Properties.
3 * To change this template file, choose Tools | Templates
4 * and open the template in the editor.
5 */
6 package modul.pkg9.fatan;
7
8 /**
9 *
10 * @author Personal
11 */
12 public class Balok extends BangunRuang {
13 int p = 8;
14 int l = 8;
15 int t = 8;
16
17 public int Volume() {
18 return *i*t;
19 }
20 public int LuasPermukaan(){
21 return 2*((p*l)+(p*t)*(l*t));
22 }
23 }
24
25 }
26

Output - Modul 9 Fatan (run)

run:
Keliling = 208 cm
Luas = 2704 cm
>> Keliling Persegi Panjang= 100800 cm

Modul 9 Fatan - NetBeans IDE 8.2

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

cdefault config>

Projects Services Files

MethodmanBangunRuang.java Balok.java Kubus.java Bola.java Kerucut.java PrismaSegitiga.java

Inheritance

JavaApplication3

Mobil

Modul1

Modul 9 Fatan

Source Packages modul.pkg9.fatan

AbstractClass.java Balok.java BangunRuang.java Bola.java JajarGanjang.java Kerucut.java Kubus.java Lingkaran.java MethodDien.java MethodmanBangunRuang Modul9.java Modul9Fatan.java

Navigator Members <empty>

Kubus :: BangunRuang

LuasPermukaan(): int : BangunRuang

Volume(): int : BangunRuang

1 /*
2 * To change this license header, choose License Headers in Project Properties.
3 * To change this template file, choose Tools | Templates
4 * and open the template in the editor.
5 */
6 package modul.pkg9.fatan;
7
8 /**
9 *
10 * @author Personal
11 */
12 public class Kubus extends BangunRuang{
13 int s =13;
14
15 public int Volume() {
16 return ***s;
17 }
18 public int LuasPermukaan(){
19 return 6*(s*s);
20 }
21 }
22

Output - Modul 9 Fatan (run)

run:
Keliling = 208 cm
Luas = 2704 cm
>> Keliling Persegi Panjang= 100800 cm

Modul 9 Fatan - NetBeans IDE 8.2

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

<default config>

Projects Services Files

MethodmanBangunRuang.java Balok.java Kubus.java Bola.java Kerucut.java PrismaSegitiga.java

Source History

D:\LABRPLU\Modul 9 Fatan\src\modul\pk9\fatan\Bola.java

```

1  /*
2   * To change this license header, choose License Headers in Project Properties.
3   * To change this template file, choose Tools | Templates
4   * and open the template in the editor.
5   */
6  package modul.pkg9.fatan;
7
8  /**
9   *
10  * @author Personal
11  */
12 public class Bola extends BangunRuang{
13     int phi = 22;
14     int r = 28;
15
16     public int Volume() {
17         return 4/3*phi*r*r*s;
18     }
19     public int LuasPermukaan(){
20         return 4*phi*r*s;
21     }
22 }
```

Output - Modul 9 Fatan (run)

```

run:
Keliling = 208 cm
Luas = 2704 cm
>> Keliling Persegi Panjang= 100800 cm
```

Notifications

Modul 9 Fatan - NetBeans IDE 8.2

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

<default config>

Projects Services Files

MethodmanBangunRuang.java Balok.java Kubus.java Bola.java Kerucut.java PrismaSegitiga.java

Source History

D:\LABRPLU\Modul 9 Fatan\src\modul\pk9\fatan\Kerucut.java

```

1  /*
2   * To change this license header, choose License Headers in Project Properties.
3   * To change this template file, choose Tools | Templates
4   * and open the template in the editor.
5   */
6  package modul.pkg9.fatan;
7
8  /**
9   *
10  * @author Personal
11  */
12 public class Kerucut extends BangunRuang{
13     int phi = 22;
14     int r = 7;
15     int t = 90;
16     int s = 10;
17
18     public int Volume() {
19         return 3/4*phi*r*r*t;
20     }
21     public int LuasPermukaan(){
22         return phi*r*(t+s);
23     }
24 }
```

Output - Modul 9 Fatan (run)

```

run:
Keliling = 208 cm
Luas = 2704 cm
>> Keliling Persegi Panjang= 100800 cm
```

Notifications

Modul 9 Fatan - NetBeans IDE 8.2

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

<default config> T S > B C

Projects Services Files

JavaApplication3

Mobil

Modul1

Modul 9 Fatan

Source Packages

modul.pkg9.fatan

- AbstractClass.java
- Balok.java
- BangunRuang.java
- Bola.java
- JajarGenjang.java
- Kerucut.java
- Kubus.java
- Lingkaran.java
- MethodBola.java
- MethodJajarGenjang.java
- MethodKerucut.java
- MethodLingkaran.java
- MethodPrismaSegitiga.java
- ModulIR.java
- ModulPR.java
- ModulTR.java

Navigator Members <empty>

PrismaSegitiga :: BangunRuang

- LuasPermukaan(): int : BangunRuang
- Volume(): int : BangunRuang

Source History > Search (Ctrl+F)

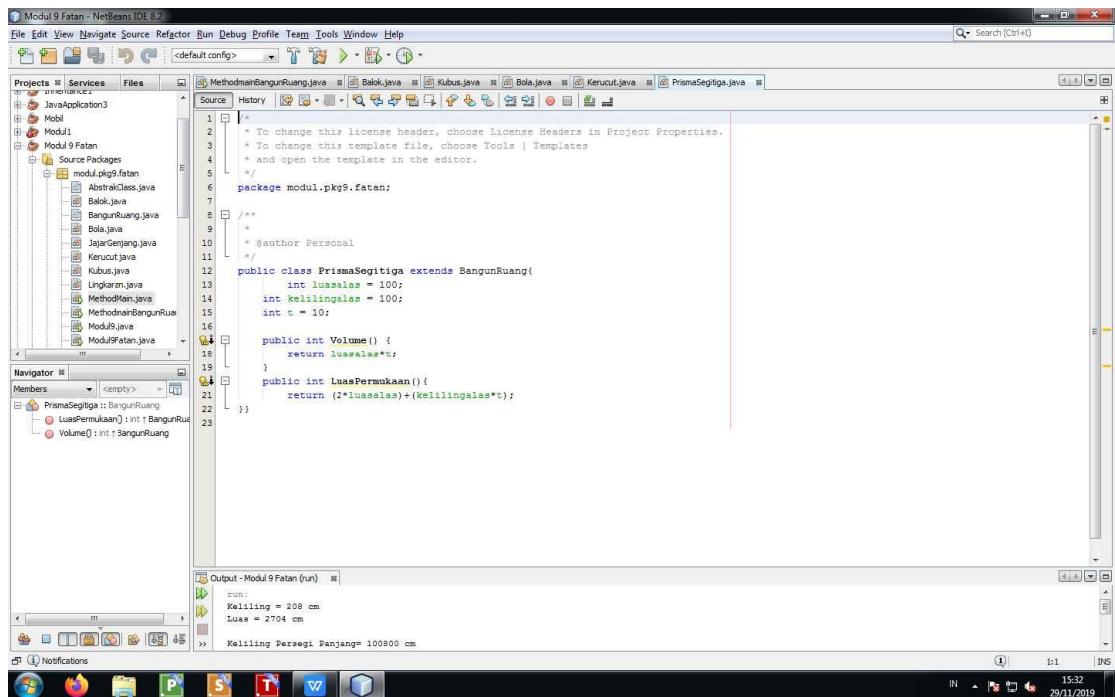
MethodPrismaSegitiga.java

```
1  /*
2  * To change this license header, choose License Headers in Project Properties.
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6  package modul.pkg9.fatan;
7
8  /**
9  *
10 * @author Personal
11 */
12 public class PrismaSegitiga extends BangunRuang{
13     int luass alas = 100;
14     int keliling alas = 100;
15     int t = 10;
16
17     public int Volume() {
18         return luass alas*t;
19     }
20     public int LuasPermukaan(){
21         return (2*luass alas)+(keliling alas*t);
22     }
23 }
```

Output - Modul 9 Fatan (run) :

```
run:
Keliling = 200 cm
Luas = 1704 cm
>> Keliling Persegi Panjang= 100800 cm
```

IN 1:1 15:32 29/11/2019



Modul 10

Modul 10 - NetBeans IDE 8.0.2

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

Projects X Start Page X Lampu.java X AplikasiLampu.java

Source History

```
41
42     if(statusLampu==0){
43         statusLampu+=2;
44         System.out.println("Lampu sudah dinyalakan");
45     }
46
47     @Override
48     public void redupkanLampu(){
49         if(statusLampu==1){
50             System.out.println("Lampu sudah dalam kondisi redup");
51         }
52
53         if(statusLampu==0){
54             System.out.println("Lampu dalam kondisi mati");
55         }
56
57         if(statusLampu==2){
58             statusLampu-=1;
59             System.out.println("Lampu sudah diredukan");
60         }
61
62     }
63
64     public int setSaklar(int saklar){
65         return statusLampu = saklar;
66     }
67 }
```

Lampu - Navigator X

Members <em...>

Lampu :: ActivityLampu

- hidupkanLampu()
- matikanLampu()
- redupkanLampu()
- setSaklar(int saklar) : int

statusLampu : int

Output

Modul 10 - NetBeans IDE 8.0.2

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

Projects X Start Page X Lampu.java X AplikasiLampu.java

Source History

```
6
7 /**
8 * @author LABRPL-20
9 */
10 import java.util.Scanner;
11
12 public class AplikasiLampu {
13     public static void main(String[] args){
14         Lampu lampu = new Lampu();
15         Scanner sc = new Scanner(System.in);
16         lampu.statusLampu = lampu.setSaklar(0);
17
18         System.out.println("Status Lampu = " + lampu.statusLampu + "\nketikkan");
19         System.out.println("2 Untuk meredupkan lampu\n1 Untuk menyalaikan lampu\n0 Untuk mematikan lampu");
20
21         int UserInput = sc.nextInt();
22
23         if(UserInput==0){
24             lampu.matikanLampu();
25         }
26
27         if(UserInput==2){
28             lampu.redupkanLampu();
29         }
30
31         if(UserInput==1){
32             lampu.hidupkanLampu();
33         }
34     }
35 }
```

AplikasiLampu

main(String[] args)

Output

Modul 10 - NetBeans IDE 8.0.2

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

Projects X Start Page X Lampu.java X AplikasiLampu.java

Source History

```
6
7 /**
8 * @author LABRPL-20
9 */
10 import java.util.Scanner;
11
12 public class AplikasiLampu {
13     public static void main(String[] args){
14         Lampu lampu = new Lampu();
15         Scanner sc = new Scanner(System.in);
16         lampu.statusLampu = lampu.setSaklar(0);
17
18         System.out.println("Status Lampu = " + lampu.statusLampu + "\nketikkan");
19         System.out.println("2 Untuk meredupkan lampu\n1 Untuk menyalaikan lampu\n0 Untuk mematikan lampu");
20
21         int UserInput = sc.nextInt();
22
23         if(UserInput==0){
24             lampu.matikanLampu();
25         }
26
27         if(UserInput==2){
28             lampu.redupkanLampu();
29         }
30
31         if(UserInput==1){
32             lampu.hidupkanLampu();
33         }
34     }
35 }
```

AplikasiLampu

main(String[] args)

Output

Modul 10 - NetBeans IDE 8.0.2

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

Search (Ctrl+F)

Projects x Start Page x Lampu.java x AplikasiLampu.java x

Source History

Modul 10

Source Packages

<default package>

- ActivityAnimal.java
- ActivityLampu.java
- AplikasiLampu.java

Lampu.java

Mamalia.java

NamalnInterface.java

Test Packages

Libraries

Test Libraries

Modul 2

Modul3

Modul8

PBO

main - Navigator x

Members

AplikasiLampu

- main(String[] args)

6

7 /**

8 *
9 * @author LABRPL-20

10 */

11 import java.util.Scanner;

12

13 public class AplikasiLampu {

14 public static void main(String[] args){

15 Lampu lampu = new Lampu();

16 Scanner sc = new Scanner(System.in);

17 lampu.statusLampu = lampu.setSaklar(0);

18

19 System.out.println("Status Lampu = " + lampu.statusLampu + "\nketikkan");

20 System.out.println("2 Untuk meredupkan lampu\n1 Untuk menyalaikan lampu\n0 Untuk mematikan lampu");

21

22 int UserInput = sc.nextInt();

23

24 if(UserInput==0){

25 lampu.matikanLampu();

26 }

27 }

Output - Modul 10 (run)

run:
Status Lampu = 0
ketikkan
2 Untuk meredupkan lampu
1 Untuk menyalaikan lampu
0 Untuk mematikan lampu

Output

Modul 10 (run) 18:9 INS

U: 0.02 MB/s D: 0.62 MB/s ENG 20:56

Modul 11

Modul 11 - NetBeans IDE 8.0.2

```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Projects X Start Page X NestedClass.java X NewClass.java X
NestedClass.java
1 /*
2  * To change this license header, choose License Headers in Project Properties.
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6 package Latihan;
7
8 /**
9  *
10 * @author LABRPL-29
11 */
12 public class NestedClass {
13     String nama = "Muqhfatan Ramadan"; // Lengkapi Nama Saudara
14     String nim = "L200180061"; // Lengkapi Dengan Nim Saudara
15
16     public void printNama() {
17         System.out.println(nama + " : " + nim);
18     }
19
20     static class StaticNestedClass {
21         static String jurusan = "Informatika";
22     }
23
24     class InnerClass{
25         void displayJurusan(){
26             StaticNestedClass tampilJurusan = new StaticNestedClass();
27             System.out.println("Jurusan = " + tampilJurusan.jurusan);
28         }
29     }
30 }
31 
```

printNama - Navigator X

Members <em...>

- NestedClass
 - printNama()
 - nama: String
 - nim: String
- InnerClass
 - displayJurusan()
- StaticNestedClass
 - jurusan: String

Output NestedClass.java saved.

U: 0.00 MB/s D: 0.00 MB/s ENG 18:58

Modul 11 - NetBeans IDE 8.0.2

```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Projects X Start Page X NestedClass.java X NewClass.java X
NestedClass.java
1 /*
2  * To change this license header, choose License Headers in Project Properties.
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6 package Latihan;
7
8 /**
9  *
10 * @author LABRPL-29
11 */
12 public class NewClass {
13     public static void main(String[] args){
14         NestedClass nested = new NestedClass();
15         nested.printNama();
16         NestedClass.InnerClass inner = nested.new InnerClass();
17         inner.displayJurusan();
18     }
19 }
20 
```

Navigator X

Members <em...>

- NewClass
 - main(String[] args)

Output

U: 0.00 MB/s D: 0.00 MB/s ENG 18:59

Modul 11 - NetBeans IDE 8.0.2

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

Projects x Start Page x NestedClass.java x NewClass.java x

Source History

```
1  /*
2   * To change this license header, choose License Headers in Project Properties.
3   * To change this template file, choose Tools | Templates
4   * and open the template in the editor.
5   */
6  package Latihan;
7
8  /**
9   * @author LABRPL-29
10  */
11
12 public class NewClass {
13     public static void main(String[] args){
14         NestedClass nested = new NestedClass();
15         nested.printNama();
16         NestedClass.InnerClass inner = nested.new InnerClass();
17         inner.displayJurusan();
18     }
19 }
20
```

Navigator x

Members

NewClass

main(String[] args)

Output - Modul 11 (run)

run:
Muchfatan Rahmadan : L200180061
Jurusan = Informatika
BUILD SUCCESSFUL (total time: 0 seconds)

Output

U: 0.00 MB/s D: 0.00 MB/s ENG 18:59

Modul 12

Modul 12 - NetBeans IDE 8.0.2

```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Projects X Source History <default config> T T D
Modul 10 Modul 12
Source Packages <default package>
  DemRadioButton.java
  DemoLabel.java
  DemoTextField.java
  FrameA.java
  FrameB.java
  JComboBox.java
  JMenu.java
  UMS-Logo_Resmi.png
  Utama.java
Test Packages Libraries Test Libraries
main - Navigator X Members <em...> F
FrameA::JFrame
  FrameA()
  main(String[] args)
Output
Modul 12 - NetBeans IDE 8.0.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Projects X Source History <default config> T T D
Modul 10 Modul 12
Source Packages <default package>
  DemRadioButton.java
  DemoLabel.java
  DemoTextField.java
  FrameA.java
  FrameB.java
  JComboBox.java
  JMenu.java
  UMS-Logo_Resmi.png
  Utama.java
Test Packages Libraries Test Libraries
main - Navigator X Members <em...> F
FrameB::JFrame
  FrameB()
  main(String[] args)
Output
```

The code for FrameA.java:

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
import java.awt.Container;
import javax.swing.JButton;
public class FrameA extends javax.swing.JFrame {
    public FrameA(){
        super("Frame dan Button");
        setSize(100, 50);
        setDefaultCloseOperation(EXIT_ON_CLOSE);
        setVisible(true);
        setLocationRelativeTo(null);
    }
    public static void main(String[] args){
        FrameA fa = new FrameA();
        Container kontainer = fa.getContentPane();
        JButton jbtOK = new JButton("OK");
        kontainer.add(jbtOK);
    }
}
```

The code for FrameB.java:

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
import java.net.URL;
import javax.swing.ImageIcon;
import javax.swing.JButton;
import javax.swing.JPanel;
public class FrameB extends javax.swing.JFrame {
    public FrameB(){
        super("Frame dan Button");
        setSize(500, 500);
        setDefaultCloseOperation(EXIT_ON_CLOSE);
        setVisible(true);
        setLocationRelativeTo(null);
    }
    public static void main(String[] args){
        FrameB fb = new FrameB();
        JPanel panel = new JPanel();
        URL img = FrameB.class.getResource("UMS-Logo_Resmi.png");
        JButton jbtOK = new JButton("OK");
        JButton jbtImg = new JButton(new ImageIcon(img));
        panel.add(jbtOK);
        panel.add(jbtImg);
        fb.add(panel);
        fb.setVisible(true);
    }
}
```

Modul 12 - NetBeans IDE 8.0.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Projects X Source History <default config> T T D
Modul 10 Modul 12
Source Packages <default package>
 DemRadioButton.java
 DemoLabel.java
 DemoTextField.java
 FrameA.java
 FrameB.java
 JComboBox.java
 JMenu.java
 UMS-Logo_Resmi.png
 Utama.java
Test Packages Libraries Test Libraries
main - Navigator X Members <em...> F
FrameB::JFrame
 FrameB()
 main(String[] args)
Output
Modul 12 - NetBeans IDE 8.0.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Projects X Source History <default config> T T D
Modul 10 Modul 12
Source Packages <default package>
 DemRadioButton.java
 DemoLabel.java
 DemoTextField.java
 FrameA.java
 FrameB.java
 JComboBox.java
 JMenu.java
 UMS-Logo_Resmi.png
 Utama.java
Test Packages Libraries Test Libraries
main - Navigator X Members <em...> F
FrameB::JFrame
 FrameB()
 main(String[] args)
Output

The code for FrameA.java:

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
import java.awt.Container;
import javax.swing.JButton;
public class FrameA extends javax.swing.JFrame {
    public FrameA(){
        super("Frame dan Button");
        setSize(100, 50);
        setDefaultCloseOperation(EXIT_ON_CLOSE);
        setVisible(true);
        setLocationRelativeTo(null);
    }
    public static void main(String[] args){
        FrameA fa = new FrameA();
        Container kontainer = fa.getContentPane();
        JButton jbtOK = new JButton("OK");
        kontainer.add(jbtOK);
    }
}
```

The code for FrameB.java:

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
import java.net.URL;
import javax.swing.ImageIcon;
import javax.swing.JButton;
import javax.swing.JPanel;
public class FrameB extends javax.swing.JFrame {
    public FrameB(){
        super("Frame dan Button");
        setSize(500, 500);
        setDefaultCloseOperation(EXIT_ON_CLOSE);
        setVisible(true);
        setLocationRelativeTo(null);
    }
    public static void main(String[] args){
        FrameB fb = new FrameB();
        JPanel panel = new JPanel();
        URL img = FrameB.class.getResource("UMS-Logo_Resmi.png");
        JButton jbtOK = new JButton("OK");
        JButton jbtImg = new JButton(new ImageIcon(img));
        panel.add(jbtOK);
        panel.add(jbtImg);
        fb.add(panel);
        fb.setVisible(true);
    }
}
```

The screenshot shows the NetBeans IDE interface with the title "Modul 12 - NetBeans IDE 8.0.2". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help, and a search bar. The toolbar has icons for file operations like New, Open, Save, and Build. The Projects tab shows two modules: "Modul 10" and "Modul 12". Under "Modul 12", there are several source packages: "Source Packages", "<default package>", "JComboBox", "JFrame", "JLabel", "JMenu", and "UMS-Logo_Resmi.png". The "JComboBox" package contains files: "JComboBox.java", "FrameAJava.java", "FrameBJava.java", "JComboBox.java", "JMenu.java", "UMS-Logo_Resmi.png", and "Utama.java". The "Utama.java" file is currently selected and its code is displayed in the main editor window. The code is as follows:

```
10  /*
11  * To change this license header, choose License Headers in Project Properties.
12  * To change this template file, choose Tools | Templates.
13  * To enable JavaDoc comment generation for this class, enable the JavaDoc
14  * option in Project Properties.
15  */
16 public class JComboBox extends javax.swing.JFrame {
17     /**
18      * Creates new form JComboBox
19      */
20     public JComboBox() {
21         super("Tugas 1");
22         initComponents();
23     }
24
25     /**
26      * This method is called from within the constructor to initialize the form.
27      * WARNING: Do NOT modify this code. The content of this method is always
28      * regenerated by the Form Editor.
29      */
30     @SuppressWarnings("unchecked")
31     // Generated Code
32
33     private void jComboBox1ActionPerformed(java.awt.event.ActionEvent evt) {
34         // TODO add your handling code here:
35     }
36
37     /**
38      * @param args the command line arguments
39      */
40     public static void main(String args[]) {
41         /* Set the Nimbus look and feel */
42     }
43 }
```

The screenshot shows the NetBeans IDE interface with the title "Modul 12 - NetBeans IDE 8.0.2". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help, and a search bar. The toolbar has icons for file operations like New, Open, Save, and Run.

The Projects tab shows "Module 10" and "Module 12". Under "Module 12", "Source Packages" contains "default package" with files: DemRadioButton.java, DemoLabel.java, DemoTextField.java, FrameA.java, FrameB.java, JComboBox.java, JMenu.java, UMS-Logo_Resmi.png, and Utama.java. "Test Packages", "Libraries", and "Test Libraries" are also listed.

The Navigator tab shows "menu1 - Navigator" with members: JComboBox :: JFrame, JComboBox, JComboBox(String sangan_tidak), initComponents(), and jComboBox1ActionPerformed().

The Editor tab displays Java code for "Utama.java". The code initializes a Nimbus look and feel, creates and displays a form, and declares variables for a JComboBox, JLabel, and menus. A callout box highlights the line "private javax.swing.JComboBox<String> jComboBox1;" with the tooltip "Sangat tidak setuju".

The Output tab shows the command "run:" followed by the output "Modul 12 (run) running".

The status bar at the bottom shows network activity (Up: 0.00 MB/s, Down: 0.00 MB/s), language (ENG), and time (23:32).