

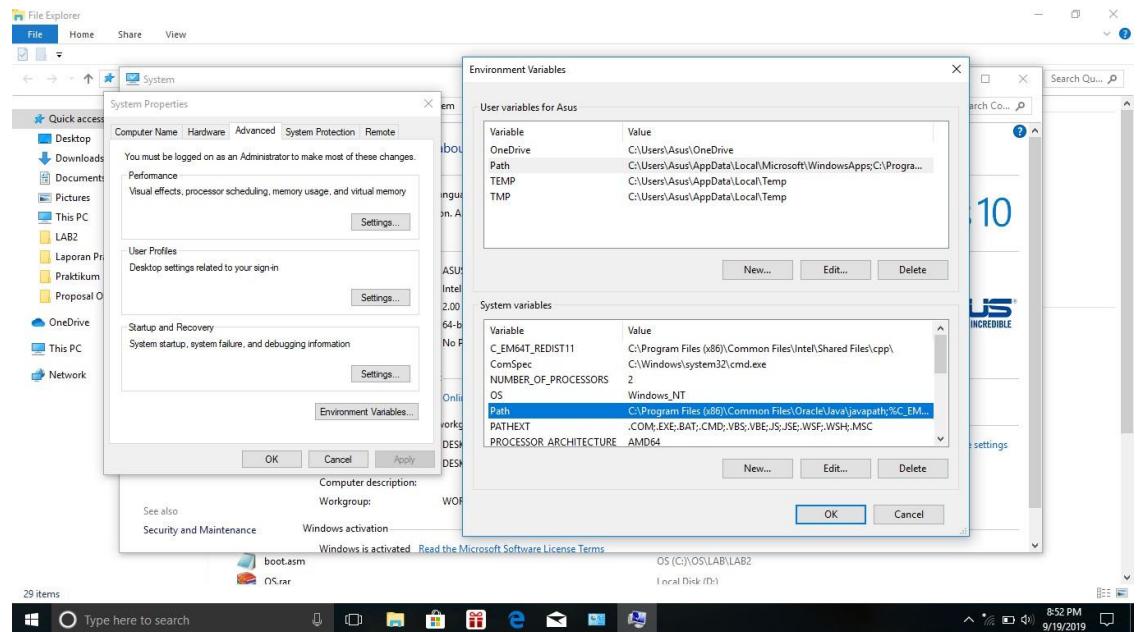
Nama : Willi susanti

NIM : L200180060

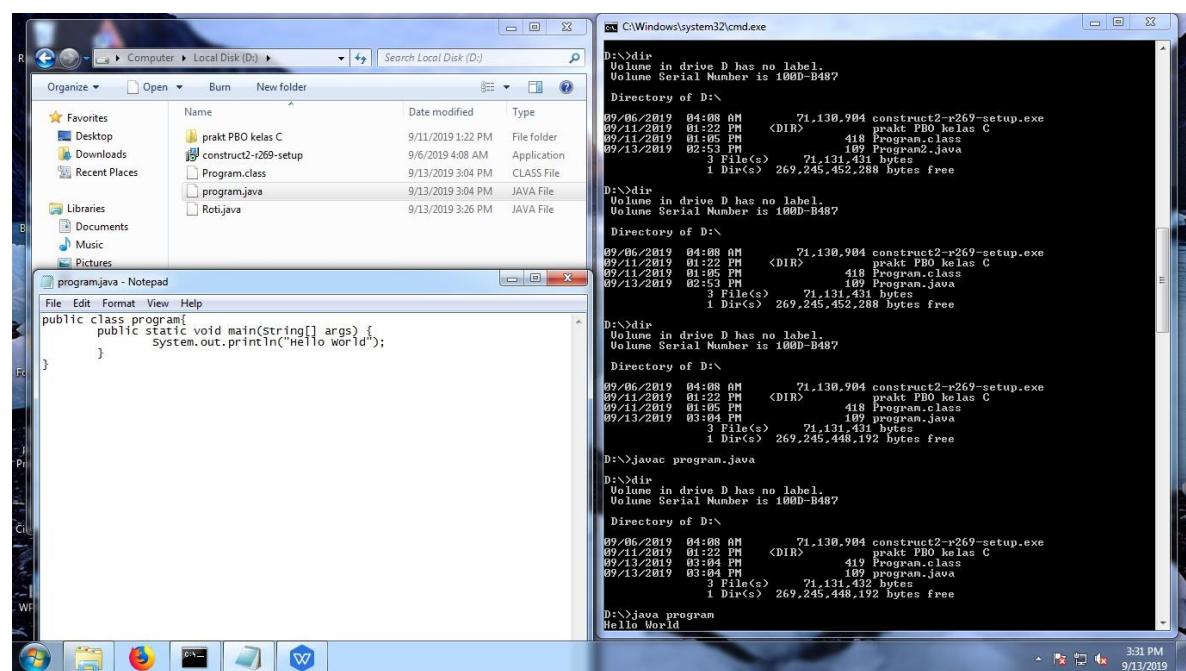
MODUL 1-12

Modul 1

Membuat Path



Hello word



Roti

```
Roti.java - Notepad
public class Roti {
    String warna;
    String rasa;
    int berat;
    double harga;

    void beriwarna(String warnaRoti) {
        warna = warnaRoti;
    }

    void berirasa(String rasaRoti) {
        rasa = rasaRoti;
    }

    void timbangBerat(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" + "gr" +
            "Harga Roti : Rp. " + harga);
    }
}

RotiDemo.java - Notepad
public class RotiDemo{
    public static void main(String[] args) {
        Roti roti = new Roti();
        roti.beriwarna("Orange");
        roti.berirasa("stroberi");
        roti.timbangBerat(30);
        roti.hargajual(5000);
        roti.inforoti();
    }
}

C:\Windows\system32\cmd.exe
D:\>dir
Volume in drive D has no label.
Volume Serial Number is 1000-B487
Directory of D:\

09/06/2019 04:08 AM    71,130,904 construct2-r269-setup.exe
09/11/2019 01:22 PM    <DIR>          praktikum_kelas_C
09/13/2019 03:04 PM          419 Program.class
09/13/2019 03:04 PM          100 Program.java
09/13/2019 03:26 PM          539 Roti.java
09/13/2019 03:38 PM          224 RotiDemo.java
09/13/2019               5 File(s)   71,132,195 bytes
09/13/2019             269,245,448,172 bytes free

D:\>javac Roti.java
D:\>java RotiDemo.java

D:\>java
Usage: java [-options] class [args...]
           (to execute a class)
      or  java [-options] -jar jarfile [args...]
           (to execute a jar file)
where options include:
  -d32           use a 32-bit data model if available
  -d64           use a 64-bit data model if available
  -server        to select the "server" VM
                 The default VM is server.
  -cp <classpath>          set a system property
  -classpath <classpath>     search path of directories and zip/jar files
                             separated list of directories and zip/jar files,
                             and JAR archives to search for class files.
  -D<name>=<value>       set a system property
  -verbose:<level>          enable verbose output
  -version         print product version and exit
  -version:<value>          Warning: this feature is deprecated and will be removed
                             in a future release.
                             run with the specified version to run
  -showversion    print the specified version and continue
  -jre-restrict-search <jre>  -no-jre-restrict-search
                             Warning: this feature is deprecated and will be removed
                             in a future release.
                             include/exclude user private JREs in the version search
  -? -help          print this help message
  -X              print standard options
  -ea[:<packagename>...];:<classname>
  -enableassertions[:<packagename>...];:<classname>
  -eaas[:<packagename>...];:<classname>
  -enableassertions[:<packagename>...];:<classname>
  -da[:<packagename>...];:<classname>
  -disableassertions[:<packagename>...];:<classname>
  -disableassertions[:<packagename>...];:<classname>
  -dasa           disable assertions with specified granularity
  -esa            enable assertions
  -dza            disable assertions
  -disas          disable assertions
  -agentlib:<library>[:<options>]
                 load native agent library <library>, e.g., -agentlib:hprof
  -agentpath:<path>[:<options>]
                 load native agent library by full pathname
  -javaagent:<javaagent>[:<options>]
                 load Java programming language agent, see java.lang.instrument
  -splash:<imagepath>
                 show splash screen with specified image
See http://www.oracle.com/technetwork/java/javase/documentation/index.html for more details.

D:\>java RotiDemo
Roti
Warna Roti : Orange
Rasa Roti : Stroberi
Berat Roti : 30
grHarga Roti : Rp. 50000.0
D:\>
```

```
Roti.java - Notepad
public class Roti {
    String warna;
    String rasa;
    int berat;
    double harga;

    void beriwarna(String warnaRoti) {
        warna = warnaRoti;
    }

    void berirasa(String rasaRoti) {
        rasa = rasaRoti;
    }

    void timbangBerat(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" + "gr" +
            "Harga Roti : Rp. " + harga);
    }
}

RotiDemo.java - Notepad
public class RotiDemo{
    public static void main(String[] args) {
        Roti roti = new Roti();
        roti.beriwarna("Orange");
        roti.berirasa("stroberi");
        roti.timbangBerat(30);
        roti.hargajual(5000);
        roti.inforoti();
    }
}

C:\Windows\system32\cmd.exe
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09/06/2019 04:08 AM    71,130,904 construct2-r269-setup.exe
09/11/2019 01:22 PM    <DIR>          praktikum_kelas_C
09/13/2019 03:04 PM          419 Program.class
09/13/2019 03:04 PM          100 Program.java
09/13/2019 03:26 PM          539 Roti.java
09/13/2019 03:38 PM          224 RotiDemo.java
09/13/2019               5 File(s)   71,132,195 bytes
09/13/2019             269,245,448,172 bytes free

D:\>javac Roti.java
D:\>java RotiDemo.java

D:\>java
Usage: java [-options] class [args...]
           (to execute a class)
      or  java [-options] -jar jarfile [args...]
           (to execute a jar file)
where options include:
  -d32           use a 32-bit data model if available
  -d64           use a 64-bit data model if available
  -server        to select the "server" VM
                 The default VM is server.
  -cp <classpath>          set a system property
  -classpath <classpath>     search path of directories and zip/jar files
                             separated list of directories and zip/jar files,
                             and JAR archives to search for class files.
  -D<name>=<value>       set a system property
  -verbose:<level>          enable verbose output
  -version         print product version and exit
  -version:<value>          Warning: this feature is deprecated and will be removed
                             in a future release.
                             run with the specified version to run
  -showversion    print the specified version and continue
  -jre-restrict-search <jre>  -no-jre-restrict-search
                             Warning: this feature is deprecated and will be removed
                             in a future release.
                             include/exclude user private JREs in the version search
  -? -help          print this help message
  -X              print standard options
  -ea[:<packagename>...];:<classname>
  -enableassertions[:<packagename>...];:<classname>
  -eaas[:<packagename>...];:<classname>
  -enableassertions[:<packagename>...];:<classname>
  -dasa           disable assertions with specified granularity
  -esa            enable assertions
  -dza            disable assertions
  -disas          disable assertions
  -agentlib:<library>[:<options>]
                 load native agent library <library>, e.g., -agentlib:hprof
  -agentpath:<path>[:<options>]
                 load native agent library by full pathname
  -javaagent:<javaagent>[:<options>]
                 load Java programming language agent, see java.lang.instrument
  -splash:<imagepath>
                 show splash screen with specified image
See http://www.oracle.com/technetwork/java/javase/documentation/index.html for more details.

D:\>java RotiDemo
Roti
Warna Roti : Orange
Rasa Roti : Stroberi
Berat Roti : 30
grHarga Roti : Rp. 50000.0
D:\>
```

MODUL 2

1.Roti

```

Roti.java - Notepad
File Edit Format View Help
public class Roti{
    String warna;
    String rasa;
    int berat;
    double harga;

    void beriWarna(String warnaRoti){
        warna = warnaRoti;
    }

    void beriRasa(String rasaRoti){
        rasa = rasaRoti;
    }

    void timbangBerat(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.java - Notepad
File Edit Format View Help
public class RotiDemo{
    public static void main(String[] args){
        Roti roti = new Roti();
        roti.beriWarna("putih");
        roti.beriRasa("coklat");
        roti.timbangBerat(30);
        roti.hargaJual(3000);
        roti.infoRoti();
    }
}

Command Prompt
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Asus>cd..
C:\Users>cd..
C:\>D:
D:\>javac roti.java
D:\>javac RotiDemo.java
D:\>java RotiDemo
Warna Roti :putih
Rasa Roti :coklat
Berat Roti :30
griharga Roti : Rp. 3000.0
D:\>

```

2.Mobil

```

Mobil.java - Notepad
File Edit Format View Help
public class Mobil{
    String nama;
    String jenis;
    String warna;
    int cc;
    double harga;

    void beriNama(String namaMobil){
        nama = namaMobil;
    }

    void beriJenis(String jenisMobil){
        jenis = jenisMobil;
    }

    void beriWarna(String warnaMobil){
        warna = warnaMobil;
    }

    void besarCc(double ccMobil){
        cc = ccMobil;
    }

    void hargaJual(double hargaMobil){
        harga = hargaMobil;
    }

    void infoMobil() {
        System.out.println(
            "Nama Mobil :" + nama + "\n" +
            "Jenis Mobil :" + jenis + "\n" +
            "Warna Mobil :" + warna + "\n" +
            "Besar CC Mobil :" + cc + "\n" +
            "Harga Mobil : Rp. " + harga + "Juta"
        );
    }
}

MobilDemo.java - Notepad
File Edit Format View Help
public class MobilDemo{
    public static void main(String[] args){
        Mobil mobil = new Mobil();
        mobil.beriNama("Pajero");
        mobil.beriJenis("Sport");
        mobil.beriWarna("Silver");
        mobil.besarCc(2000);
        mobil.hargaJual(500);
        mobil.infoMobil();
    }
}

Command Prompt
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Asus>cd..
C:\Users>cd..
C:\>D:
D:\>javac Mobil.java
D:\>javac MobilDemo.java
D:\>java MobilDemo
Nama Mobil :Pajero
Jenis Mobil :Sport
Warna Mobil :Silver
Besar CC Mobil :2000.0
CC Harga Mobil : Rp. 500.0Juta
D:\>

```

3.CAR

The screenshot shows a Windows desktop environment. In the center, there are two Notepad windows side-by-side. The left window is titled 'Car.java - Notepad' and contains Java code for a 'Car' class. The right window is titled 'CarDemo.java - Notepad' and contains Java code for a 'CarDemo' class. Below these windows is a Command Prompt window with the following output:

```

D:\>javac BungaDemo.java
D:\>java BungaDemo
Warna Bunga :Merah
Denis Bunga :Mawar
Berat Bunga :15
grHarga Bunga : Rp. 7000.0
D:\>javac Car.java
D:\>javac CarDemo.java
D:\>java CarDemo
Cadence : 50
SpeedUp :20
changeGear :2
Cadence : 30
SpeedUp :10
changeGear :1
D:\>

```

At the bottom of the screen, the taskbar displays the Start button, a search bar, and several pinned icons. The system tray shows the date and time as 9/26/2019 at 12:59 PM.

MODUL 3

Latihan 1

The screenshot shows the NetBeans IDE 8.2 interface. At the top, the menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help. The title bar says 'Modul 3 - NetBeans IDE 8.2'. The main area has tabs for 'Start Page', 'LocalVariable.java', 'InstanceVariable.java', 'DemoPegawai.java', 'Pegawai.java', and 'Nilai.java'. The left sidebar shows the 'Projects' tab with a tree view of the 'Modul 3' project, including 'Source Packages' and 'Test Packages'. The central editor pane shows the 'LocalVariable.java' file with the following code:

```

6 /**
7 * 
8 * @author AriW
9 */
10 public class LocalVariable {
11
12     float usia = 0;
13     public void hitungUsia(){
14
15         int tahunSekarang = 2019;
16         int tahunLahir = 1999;
17         usia = tahunSekarang - tahunLahir;
18
19         System.out.println("Usia saya : " + usia);
20     }
21
22
23     public void beratBadan(){
24         float berat = 15;
25         float beratLahir = 30;
26
27         berat = beratLahir - (usia/2); //variabel usia tidak bisa dipanggil di method beratBadan()
28                                         //karena variabel usia termasuk local variabel
29                                         //yang hanya bisa dipanggil di method yang mendeklarasikan
30         System.out.println("Berat badan saya :" + berat);
31     }
32 }

```

The status bar at the bottom shows the date and time as 10/2/2019 at 11:00 PM.

Latihan 2

Modul 3 - NetBeans IDE 8.2

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

Projects Files Services

Start Page LocalVariable.java InstanceVariable.java DemoPegawai.java Pegawai.java Nilaи.java

Source History

```
8 * @author Willi
9 */
10 public class InstanceVariable {
11
12     float usia = 0;
13
14     public void hitungUsia(){
15         int tahunSekarang = 2019;
16         int tahunLahir = 1999;
17         usia = tahunSekarang - tahunLahir;
18
19         System.out.println("Usia saya : " + usia);
20     }
21
22     public void beratBadan(){
23         float berat =0;
24         float beratLahir = 30;
25
26         berat = beratLahir - (usia/2);
27         System.out.println("Berat badan saya :" + berat);
28     }
29
30 }
31
```

InstanceVariable > beratBadan > berat

24:21 11:01 PM 10/2/2019

Latihan 3

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

- MenuBar:** File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help.
- Toolbar:** Standard Java development tools like New Project, Open, Save, Find, Replace, etc.
- Project Explorer (Left):** Shows "Modul 3" with "Source Packages" containing files: DemoPegawai.java, DemoVariable.java, InstanceVariable.java, LocalVariable.java, MethodParameter.java, Nilai.java, NonVoidMethod.java, Pegawai.java, StaticVariable.java, and StaticVariableAccess.java. It also lists "Test Packages", "Libraries", and "Test Libraries".
- Editor Area (Center):** Displays the code for the Pegawai.java file. The code defines a Pegawai class with instance variables nama, nip, and gaji, and methods beriNama, beriNip, tambahGaji, and cetakPegawai. A cursor is positioned at the start of the class definition.
- Toolbars and Buttons:** Standard Java development toolbars and buttons for navigating between tabs and windows.
- Status Bar (Bottom):** Shows the time as 9:16 and the date as 10/2/2019.

```
* @author Aris
public class Pegawai {
    String nama;
    int nip;
    double gaji;

    void beriNama(String nama) {
        this.nama = nama;
    }
    void beriNip(int nip_peg) {
        nip = nip_peg;
    }
    void tambahGaji(double gaji_peg) {
        gaji = gaji_peg;
    }

    void cetakPegawai() {
        System.out.println(
            "Nama Pegawai : " + nama + "\n" +
            "NIP Pegawai : " + nip + "\n" +
            "Gaji Pegawai : Rp. " + gaji + "\n"
        );
    }
}
```

Modul 3 - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects Files Services

Modul 3

Source Packages

- <default package>
 - DemoPegawai.java
 - DemoVariable.java
 - InstanceVariable.java
 - DemoPegawai.java
 - Pegawai.java
 - Nilai.java
 - MethodParameter.java
 - NonVoidMethod.java
 - LocalVariable.java
 - StaticVariable.java
 - StaticVariableAccess.java

Test Packages

Libraries

Test Libraries

StartPage LocalVariable.java InstanceVariable.java DemoPegawai.java Pegawai.java Nilai.java

Source History

11 public class DemoPegawai {
12 public static void main(String[] args){
13 Pegawai pgw1 = new Pegawai();
14 pgw1.berilNama("Ari");
15 pgw1.berilNip(1800111222);
16 pgw1.tambahGaji(3000000);
17 pgw1.cetakPegawai();
18
19 Pegawai pgw2 = new Pegawai();
20 pgw2.berilNama("Andi");
21 pgw2.berilNip(1800444666);
22 pgw2.tambahGaji(3500000);
23 pgw2.cetakPegawai();
24
25 Pegawai pgw3 = new Pegawai();
26 pgw3.berilNama("Dimas");
27 pgw3.berilNip(18009997779);
28 pgw3.tambahGaji(2500000);
29 pgw3.cetakPegawai();
30
31 Pegawai pgw4 = new Pegawai();
32 pgw4.berilNama("Siti");
33 pgw4.berilNip(1800332211);
34 pgw4.tambahGaji(4000000);
35 pgw4.cetakPegawai();
36
37 Pegawai pgw5 = new Pegawai();
38 pgw5.berilNama("Astrin");
39 pgw5.berilNip(1800556633);
40 pgw5.tambahGaji(4000000);
41 pgw5.cetakPegawai();
42 }
DemoPegawai > main >

41:29 11:55 PM 10/2/2019

Hasil dari latihan 3

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

- Projects Tab:** Shows a project named "Modul 3" containing several Java files: DemoPegawai.java, DemoVariable.java, InstanceVariable.java, LocalVariable.java, MethodParameter.java, Nilai.java, NonVoidMethod.java, Pegawai.java, StaticVariable.java, and StaticVariableAccess.java.
- Source Tab:** Displays the code for the "DemoPegawai.java" file. The code defines a public class "DemoPegawai" with a main method. The main method prints out information for four employees: Ari, Andi, Dimas, and Sri. Each employee's name, NIP, and salary are printed.
- Output Tab:** Shows the command-line output of the run command. It displays the same information as the Source tab but includes a "BUILD SUCCESSFUL" message at the end.
- Bottom Status Bar:** Shows the system tray icons and the current date and time (10/2/2019, 11:29 PM).

Tugas Pekerjaan Rumah

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

- Projects Tab:** Shows a project named "Modul 3" containing several Java files: DemoPegawai.java, DemoVariable.java, InstanceVariable.java, LocalVariable.java, MethodParameter.java, Nilai.java, NonVoidMethod.java, Pegawai.java, StaticVariable.java, and StaticVariableAccess.java.
- Source Tab:** Displays the code for the "Nilai.java" file. The code defines a public class "Nilai" with methods for calculating average scores (n_uts, n_uas, n_tug) and printing the total average (cetakNilai). It also contains a main method that creates an instance of Nilai, calls these methods, and prints the results.
- Bottom Status Bar:** Shows the system tray icons and the current date and time (10/2/2019, 11:08 PM).

Hasil dari latihan 3

The screenshot shows the NetBeans IDE interface with the title "Modul 3 - NetBeans IDE 8.2". The left sidebar displays the project structure for "Modul 3" with several source files under "Source Packages". The main workspace shows the "Output - Modul 3 (run)" window with the following text:
run:
Nilai UTS : 70.0
Nilai UAS : 60.0
Nilai Tugas : 100.0
Nilai Total : 76.66666666666667
BUILD SUCCESSFUL (total time: 0 seconds)

MODUL 4

Private Modifier

The screenshot shows the NetBeans IDE interface with the title "Modul 4 - NetBeans IDE 8.2". The left sidebar displays the project structure for "Modul 4" with several source files under "Source Packages". The main workspace shows the "Source" tab of the editor with the following Java code:

```
5  /*
6   * package modul.pkg4;
7   *
8   */
9   /*
10  * @author Personal
11  */
12 public class privatemodifier {
13     private String nama;
14     private int umur;
15
16     private void printInfo(){
17         System.out.println("private modifier");
18     }
19
20 }
21
```

The "Output - Modul 4 (run)" window shows the build was successful.
run:
BUILD SUCCESSFUL (total time: 1 second)

- **Hasil** dari latihan 3

Modul4 - NetBeans IDE 8.2

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

publicmodifier.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.pkg4;
7
8 /**
9  *
10 * @author Personal
11 */
12 public class demoprivatemodifier {
13     public static void main(String[] args) {
14         privatemodifier C = new privatemodifier();
15         C.printInfo();
16     }
17 }
18

```

Output - Modul4 (run) :

```

run:
Exception in thread "main" java.lang.RuntimeException: Uncompilable source code - printInfo() has private access in modul.pkg4.privatemodifier
        at modul.pkg4.demoprivatemodifier.main(demoprivatemodifier.java:15)
C:\Users\Personal\AppData\Local\NetBeans\Cache\8.2\executor-snippets\run.xml:53: Java returned: 1
BUILD FAILED (total time: 0 seconds)

```

Build of Modul 4 (run) failed.

Default Modifier

Modul4 - NetBeans IDE 8.2

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

publicmodifier.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.pkg4;
7
8 /**
9  *
10 * @author Personal
11 */
12 class DefaultModifier {
13     int a = 1;
14     int b = 2;
15     int c;
16     void jumlah() {
17         c = a + b;
18         System.out.println(c);
19     }
20 }
21

```

Output - Modul4 (run) :

```

run:
BUILD SUCCESSFUL (total time: 1 second)

```

Finished building Modul 4 (run).

- **Hasil**

Modul.4 - NetBeans IDE 8.2

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

Search (Ctrl+I)

publicmodifier.java

Projects X Files Services

JavaApplication9 JavaApplication9.java

Modul.4

Source Packages <default package>

- publicmodifier.java
- modul.pkg4
- Modul4.java
- defaultmodifier.java
- demodefaultmodifier.java
- demoprivatemodifier.java
- demoprotectedmodifier.java
- privatemodifier.java
- protectedmodifier.java

Navigator X Members <empty>

Members demodefaultmodifier main(String[] args)

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 modul.pkg4;
7
8  /**
9   *
10  * @author Personal
11  */
12 public class demodefaultmodifier {
13     public static void main(String[] args){
14         DefaultModifier C = new DefaultModifier();
15         C.jumlah();
16     }
17
18 }
19
20 
```

modul.pkg4.demodefaultmodifier > main >

Output - Modul.4 (run) X

```

run:
BUILD SUCCESSFUL (total time: 1 second)
| 
```

15:20 04/10/2019

Protected Modifier

Modul.4 - NetBeans IDE 8.2

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

Search (Ctrl+I)

publicmodifier.java

Projects X Files Services

JavaApplication9 JavaApplication9.java

Modul.4

Source Packages <default package>

- publicmodifier.java
- modul.pkg4
- Modul4.java
- defaultmodifier.java
- demodefaultmodifier.java
- demoprivatemodifier.java
- demoprotectedmodifier.java
- demopublicmodifier.java
- privatemodifier.java

Navigator X Members <empty>

Members protectedmodifier printInfo() sendMessage()

Source History

```

6  package modul.pkg4;
7
8  /**
9   *
10  * @author Personal
11  */
12 public class protectedmodifier {
13     protected void printInfo(){
14         System.out.println("Protected Modifier");
15     }
16     protected void sendMessage(){
17         System.out.println("this is a message");
18     }
19
20 
```

modul.pkg4.protectedmodifier >

Output - Modul.4 (run) X

```

run:
Protected Modifier
this is a message
BUILD SUCCESSFUL (total time: 1 second)
| 
```

12:31:17 15:54 04/10/2019

- Hasil

```

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.pkg4;
7
8 /**
9 *
10 * @author Personal
11 */
12 public class demoprotectedmodifier {
13     public static void main(String[] args) {
14         protectedmodifier ant = new protectedmodifier();
15         ant.printInfo();
16         ant.sendMessage();
17     }
18 }

```

Output - Modul4 (run) >

```

run:
Protected Modifier
this is a message
BUILD SUCCESSFUL (total time: 1 second)

```

Public Modifier

Kali

```

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 modul4;
7
8 /**
9 *
10 * @author LABRPL-32
11 */
12 public class publicModifier {
13     public int a = 2;
14     public int b = 5;
15     public int c = 9;
16     public void kali(){
17         int d = a*b*c;
18         System.out.println("Hasil kali = " + d);
19     }
20 }

```

Output - modul4.publicModifier (run) >

```

run:
Hasil kali = 90
BUILD SUCCESSFUL (total time: 1 second)

```

- Hasil Kali

```

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 modul4;
7
8 /**
9  *
10 * @author LABRPL-32
11 */
12 public class demoPublicModifier {
13     public static void main(String[] args) {
14         publicModifier pp = new publicModifier();
15         pp.kali();
16     }
17 }
18
19

```

Output - modul4 (run)

```

E:\modul4>java demoPublicModifier
Hasil kali = 90
BUILD SUCCESSFUL (total time: 0 seconds)

```

Tambah,Kurang,Bagi dan Rata-Rata

```

8 /**
9  *
10 * @author LABRPL-32
11 */
12 public class publicModifier {
13     public int a = 2;
14     public int b = 5;
15     public int c = 9;
16     public void kali(){
17         int d = a*b*c;
18         System.out.println("Hasil kali = " + d);
19     }
20     public void tambah(){
21         int d = a+b+c;
22         System.out.println("Hasil tambah = " + d);
23     }
24     public void kurang(){
25         int d = a-b-c;
26         System.out.println("Hasil kurang = " + d);
27     }
28     public void bagi(){
29         int d = a/b/c;
30         System.out.println("Hasil bagi = " + d);
31     }
32     public void ratarata(){
33         int d = (a+b+c)/3;
34         System.out.println("Hasil Rata rata = " + d);
35     }
36 }
37

```

- Hasil Tambah,Kurang,Bagi dan Rata-Rata

modul4 - NetBeans IDE 8.2

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

Projects Files Services

modul4

Source Packages

- Modul4
- demoDefaultModifier
- demoDefaultModifier.java
- Modul4.java
- defaultModifier.java
- defaultModifierDemo.java
- demoPrivateModifier.java
- demoPublicModifier.java
- privateModifier.java
- protectedModifier.java
- publicModifier.java

Test Packages Libraries Test Libraries

Navigator Members

demoPublicModifier

main(String[] args)

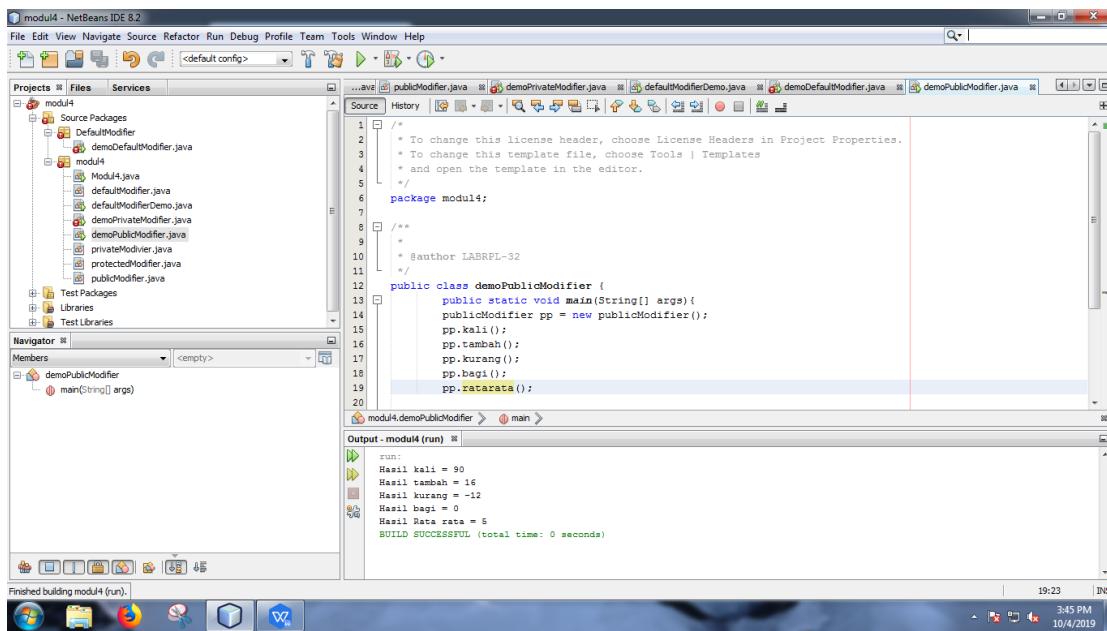
Source History

```
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 modul4;
6
7 /**
8 * @author LABRPL-32
9 */
10 public class demoPublicModifier {
11     public static void main(String[] args){
12         publicModifier pp = new publicModifier();
13         pp.kali();
14         pp.tambah();
15         pp.kurang();
16         pp.bagi();
17         pp.ratarata();
18     }
19 }
20
```

Output - modul4 (run) *

```
RUN:
Hasil kali = 90
Hasil tambah = 16
Hasil kurang = -12
Hasil bagi = 0
Hasil Data rata = 5
BUILD SUCCESSFUL (total time: 0 seconds)
```

19:23 3:45 PM 10/4/2019



MODUL 5

Modul5 - NetBeans IDE 8.2

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

Projects Files Services

modul4

Modul5

Source Packages

- <default package>
- Buku.java
- Constructor.java
- ConstructorAccess.java
- DefaultAccess.java
- DemoBuku.java
- DemoTugas.java
- Lathan1.java
- LathanAccess.java
- ParamConstructor.java
- Tugas.java

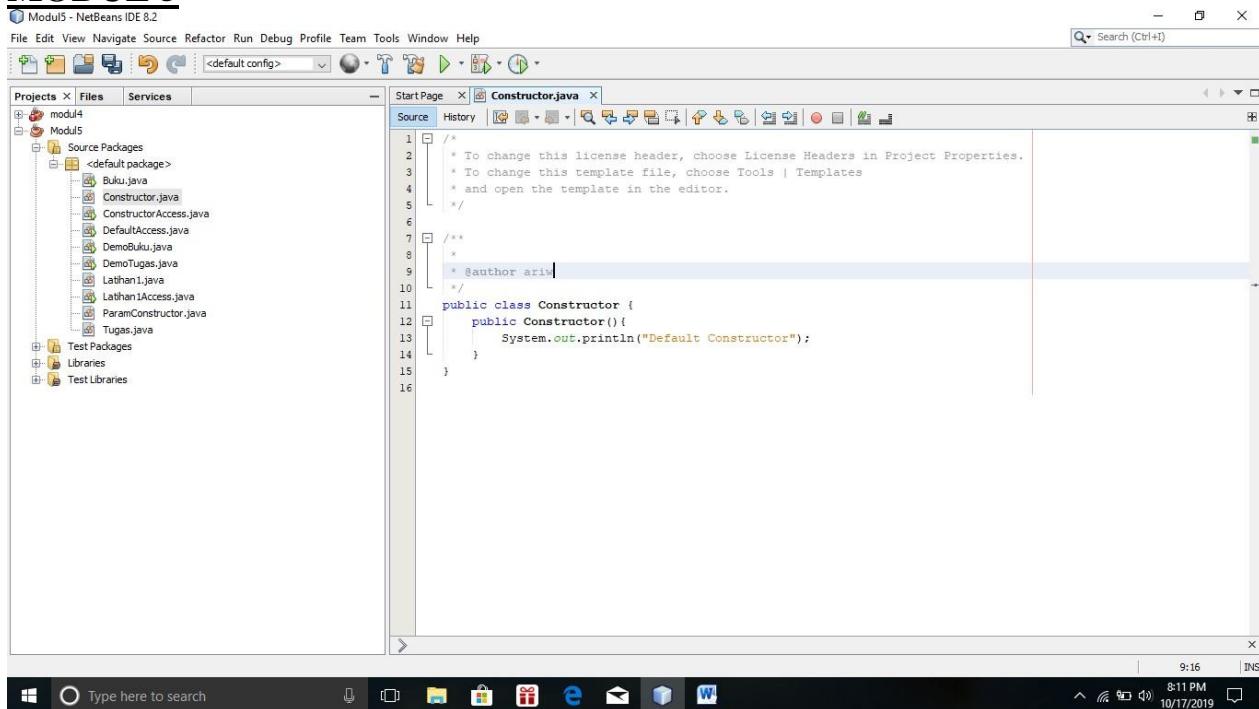
Test Packages Libraries Test Libraries

Start Page Constructors.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
7 /**
8 * @author aris
9 */
10 public class Constructor {
11     public Constructor(){
12         System.out.println("Default Constructor");
13     }
14 }
15
16
```

9:16 8:11 PM 10/17/2019



Hasil dari latihan 3

Modul5 - NetBeans IDE 8.2

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

Projects Source Packages Files Services

modul4

Modul5

Source Packages <default package>

- Buku.java
- Constructor.java
- ConstructorAccess.java
- DefaultAccess.java
- DemoBuku.java
- DemoTugas.java
- Latihan1.java
- Latihan1Access.java
- ParamConstructor.java
- Tugas.java

Test Packages Libraries Test Libraries

Start Page Constructor.java DefaultAccess.java ConstructorAccess.java ParamConstructor.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  
7 /**  
8  *  
9  * @author aris  
*/  
10  
11 public class DefaultAccess {  
12     public static void main(String[] args){  
13         Constructor cons = new Constructor();  
14     }  
15 }  
16
```

Output - Modul5 (run) x

```
run:  
Default Constructor  
BUILD SUCCESSFUL (total time: 3 seconds)
```

9:16 8:15 PM 10/17/2019

Modul5 - NetBeans IDE 8.2

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

Projects Files Services Start Page Constructor.java DefaultAccess.java ConstructorAccess.java ParamConstructor.java <default config>

Source History

```
8  * @author ariw
9
10 public class ParamConstructor {
11     String nama, nim;
12     int semester;
13
14     public ParamConstructor(String nama, int semester, String nim){
15         this.nama = nama;
16         this.semester = semester;
17         this.nim = nim;
18     }
19
20     public void info(){
21         System.out.println("Nama : " + nama + "\n" +
22                           "NIM : " + nim + "\n" +
23                           "Semester : " + semester + "\n");
24     }
25 }
26
27
```

9:16 8:16 PM 10/17/2019 INS

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Modul5 - NetBeans IDE 8.2

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

Projects Files Services Start Page Constructor.java DefaultAccess.java ConstructorAccess.java ParamConstructor.java <default config>

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
7 /**
8 *
9 * @author ariw
10 */
11 public class ConstructorAccess {
12     public static void main(String[] args){
13         ParamConstructor pc = new ParamConstructor("ariw", 3, "L200180054");
14         pc.info();
15     }
16 }
```

13:54 8:18 PM 10/17/2019 INS

Type here to search

Modul5 - NetBeans IDE 8.2

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

Projects Files Services

modul4 Modul5

Source Packages <default package>

- Buku.java
- Constructor.java
- ConstructorAccess.java
- DefaultAccess.java
- DemoBuku.java
- DemoTugas.java
- Latihan1.java
- Latihan1Access.java
- ParamConstructor.java
- Tugas.java

Test Packages Libraries Test Libraries

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
7 /**
8 *
9 * @author ariw
10 */
11 public class Latihan1 {
12     String nama = "ari wibowo";
13     String nim = "L200180056";
14     String alamat = "PWDD";
15
16     Latihan1(){
17         System.out.println("Nama : " + nama + "\n" +
18                             "NIM : " + nim + "\n" +
19                             "Alamat : " + alamat + "\n");
20     }
21 }
22
```

Lathian1 nim

13:29 8:21 PM 10/17/2019

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Modul5 - NetBeans IDE 8.2

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

Projects Files Services

modul4 Modul5

Source Packages <default package>

- Buku.java
- Constructor.java
- ConstructorAccess.java
- DefaultAccess.java
- DemoBuku.java
- DemoTugas.java
- Latihan1.java
- Latihan1Access.java
- ParamConstructor.java
- Tugas.java

Test Packages Libraries Test Libraries

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
7 /**
8 *
9 * @author ariw
10 */
11 public class Latihan1Access {
12     public static void main(String[] args){
13         Latihan1 lti = new Latihan1();
14     }
15 }
16
```

Output - Modul5 (run #2)

```
run:
Default Constructor
BUILD SUCCESSFUL (total time: 1 second)
```

9:16 8:24 PM 10/17/2019

Type here to search

Modul5 - NetBeans IDE 8.2

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

Projects Files Services

modul4 Modul5

Source Packages <default package>

Buku.java Constructor.java ConstructorAccess.java DefaultAccess.java DemoBuku.java DemoTugas.java Lathan1.java Lathan1Access.java ParamConstructor.java Tugas.java

Test Packages Libraries Test Libraries

Source History

```
23
24     Buku(String judulBuku, String namaPengarang, int tahunTerbit){
25         this(judulBuku, namaPengarang);
26         System.out.println("Tahun Terbit : " + tahunTerbit);
27     }
28
29
30     Buku(String judulBuku, String namaPengarang, int tahunTerbit, int cetakanKe){
31         this(judulBuku, namaPengarang, tahunTerbit);
32         System.out.println("Cetakan Ke : " + cetakanKe);
33     }
34
35     Buku(String judulBuku, String namaPengarang, int tahunTerbit, int cetakanKe, double hargaJual){
36         this(judulBuku, namaPengarang, tahunTerbit, cetakanKe);
37         System.out.println("Harga Jual : Rp. " + hargaJual + "\n");
38     }
39
40     public static void main(String[] args){
41         Buku bk1 = new Buku("PBO", "Dyah Priyawati", 2019, 1, 60000);
42         Buku bk2 = new Buku("Leskar Pelangi", "Andrea", 2015, 1, 70000);
43         Buku bk3 = new Buku("Dear Nathan", "Erisca", 2017, 1, 62000);
44         Buku bk4 = new Buku("Cinta Brontosaurus", "Raditya Dika", 2015, 1, 77000);
45         Buku bk5 = new Buku("Menembus Impian", "Abidah", 2017, 2, 25000);
46         Buku bk6 = new Buku("Merpati Biru", "Ahmad", 2018, 1, 43000);
47         Buku bk7 = new Buku("Kepompong", "Indah", 2006, 1, 59000);
48         Buku bk8 = new Buku("Kupu-kupu", "Putut", 2015, 1, 50000);
49         Buku bk9 = new Buku("Sepucuk Surat", "Susanto", 2019, 1, 80000);
50         Buku bk10 = new Buku("Surat Dari Kota", "Susanto", 2019, 1, 90000);
51     }
52 }
```

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Modul5 - NetBeans IDE 8.2

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

Projects Files Services

modul4 Modul5

Source Packages <default package>

Buku.java Constructor.java ConstructorAccess.java DefaultAccess.java DemoBuku.java DemoTugas.java Lathan1.java Lathan1Access.java ParamConstructor.java Tugas.java

Test Packages Libraries Test Libraries

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
7 /**
8  *
9  * @author arr
10 */
11 public class DemoBuku {
12     public static void main(String[] args) {
13     }
14 }
15
16 }
```

Output - Modul5 (run) x

```
run:
Default Constructor
BUILD SUCCESSFUL (total time: 1 second)
```

Type here to search 8:27 PM 10/17/2019

Modul5 - NetBeans IDE 8.2

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

Projects Files Services

modul4 Modul5

Source Packages <default package>

- Buku.java
- Constructor.java
- ConstructorAccess.java
- DefaultAccess.java
- DemoBuku.java
- DemoTugas.java
- Lathan1.java
- Lathan1Access.java
- ParamConstructor.java
- Tugas.java

Test Packages Libraries Test Libraries

...java ParamConstructor.java Lathan1.java Lathan1Access.java Buku.java DemoBuku.java DemoTugas.java

Source History

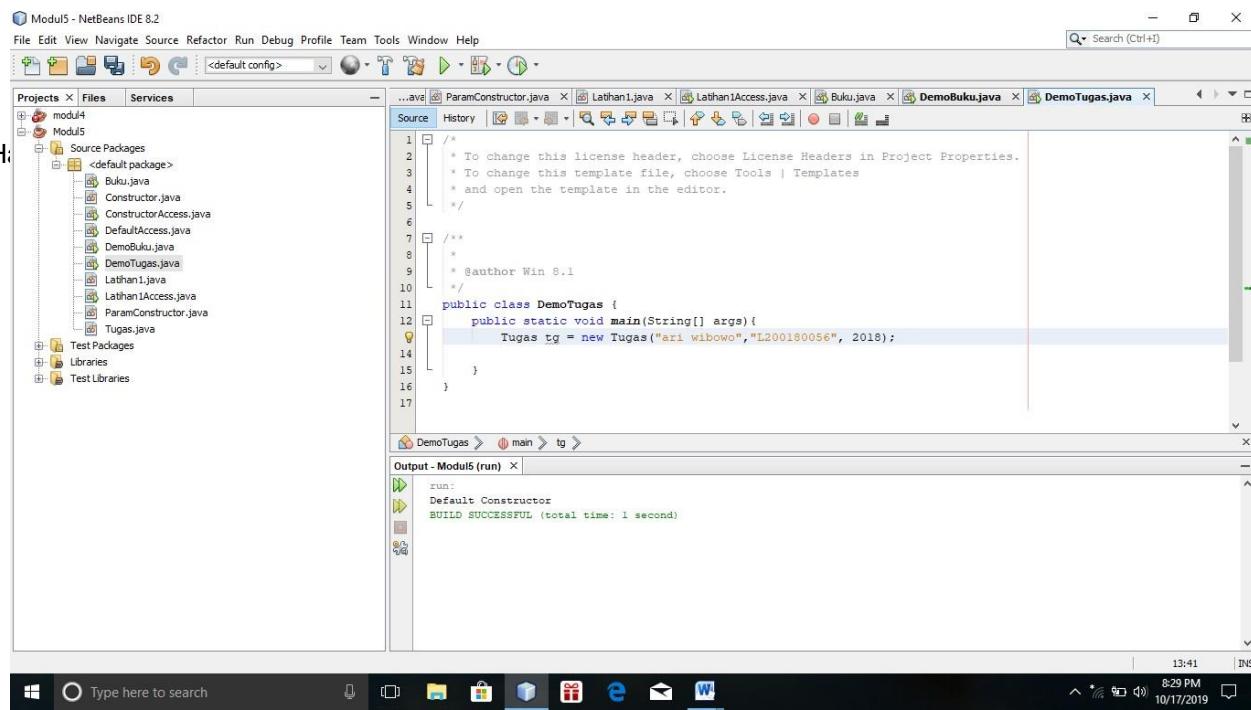
```
1 /*  
2  * To change this license header, choose License Headers in Project Properties.  
3  * To change this template file, choose Tools | Templates  
4  * and open the template in the editor.  
5 */  
6  
7 /**  
8  * @author Win 8.1  
9 */  
10 public class DemoTugas {  
11     public static void main(String[] args){  
12         Tugas tg = new Tugas("ari wibowo", "L200180056", 2018);  
13     }  
14 }  
15  
16 }  
17
```

DemoTugas > main > tg >

Output - Modul5 (run) X

```
run:  
Default Constructor  
BUILD SUCCESSFUL (total time: 1 second)
```

13:41 8:29 PM 10/17/2019



Modul5 - NetBeans IDE 8.2

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

Projects Files Services

modul4 Modul5

Source Packages <default package>

- Buku.java
- Constructor.java
- ConstructorAccess.java
- DefaultAccess.java
- DemoBuku.java
- DemoTugas.java
- Lathan1.java
- Lathan1Access.java
- ParamConstructor.java
- Tugas.java

Test Packages Libraries Test Libraries

...java Lathan1.java Lathan1Access.java Buku.java DemoBuku.java DemoTugas.java Tugas.java

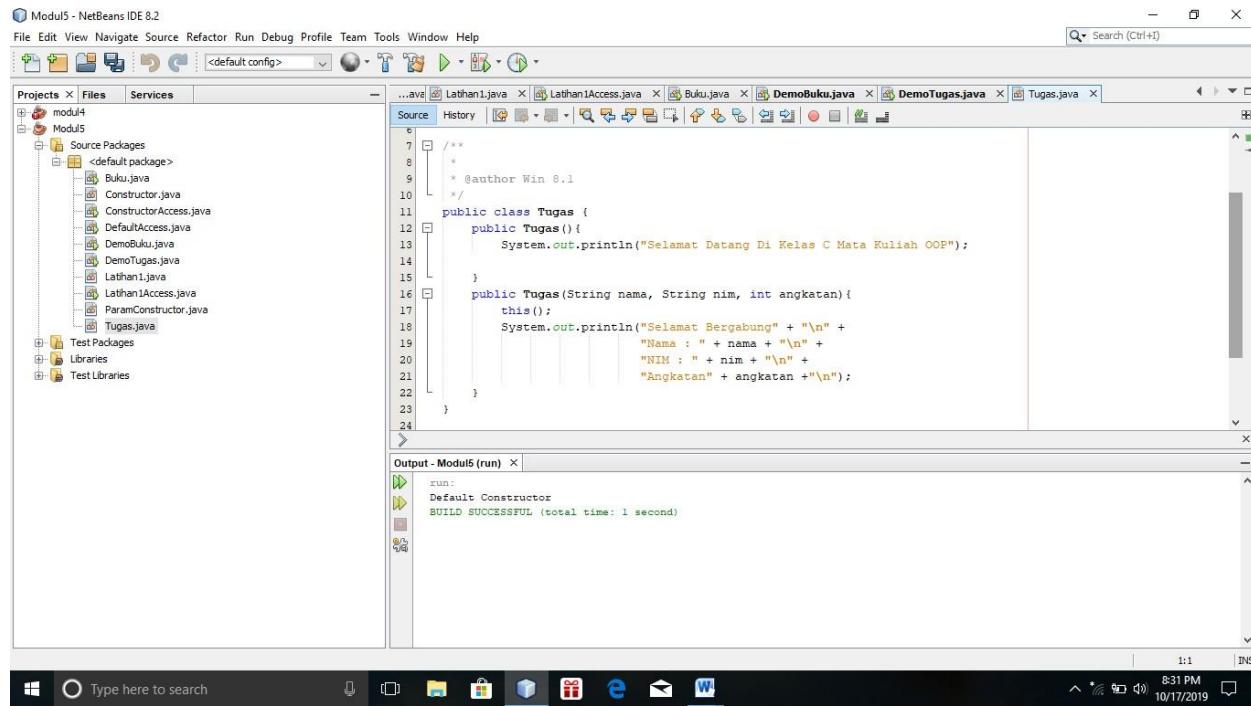
Source History

```
6  
7 /**  
8  * @author Win 8.1  
9 */  
10 public class Tugas {  
11     public Tugas(){  
12         System.out.println("Selamat Datang Di Kelas C Mata Kuliah OOP");  
13     }  
14     public Tugas(String nama, String nim, int angkatan){  
15         this();  
16         System.out.println("Selamat Bergabung" + "\n" +  
17             "Nama : " + nama + "\n" +  
18             "NIM : " + nim + "\n" +  
19             "Angkatan" + angkatan +"\n");  
20     }  
21 }  
22  
23 }
```

Output - Modul5 (run) X

```
run:  
Default Constructor  
BUILD SUCCESSFUL (total time: 1 second)
```

1:1 8:31 PM 10/17/2019



Modul 6

1.kendaraan

inheritance - NetBeans IDE 8.2

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

Source History

```
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 inheritancel;
6
7 /**
8 * @author LABREL-13
9 */
10 public class Kendaraan {
11     String jenis = "Mobil";
12     String warna = "Putih";
13     int roda = 4;
14 }
```

Projects

- inheritance
 - Source Packages
 - inheritance1
 - A.java
 - B.java
 - C.java
 - Kendaraan.java
 - Mobil.java
 - Pegawai.java
 - Pesawat.java
 - Programmer.java
 - Teknis.java
 - bangundatar.java
 - inheritanceTest.java
 - mainKendaraan.java
 - persegi.java
 - persegiPanjang.java
 - segitiga.java
 - segitigasamakali.java
 - segitigasamasisi.java
 - Test Packages
 - Libraries
 - Test Libraries
 - modul4
 - Modul5
 - tugasPBO

Services

Files

Search (Ctrl+F)

18:1 11/14/2019 INS

Type here to search 10:02 PM 11/14/2019

2.Mobil

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

Source History

```
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 inheritancel;
6
7
8
9 public class Mobil extends Kendaraan {
10     String jenis = "Mobil";
11     int jumlahkursi = 6;
12 }
13 }
```

Projects

- inheritance
 - Source Packages
 - inheritance1
 - A.java
 - B.java
 - C.java
 - Kendaraan.java
 - Mobil.java
 - Pegawai.java
 - Pesawat.java
 - Programmer.java
 - Teknis.java
 - bangundatar.java
 - inheritanceTest.java
 - mainKendaraan.java
 - persegi.java
 - persegiPanjang.java
 - segitiga.java
 - segitigasamakali.java
 - segitigasamasisi.java
 - Test Packages
 - Libraries
 - Test Libraries
 - modul4
 - Modul5
 - tugasPBO

Services

Files

Search (Ctrl+F)

8:1 11/14/2019 INS

Type here to search 10:02 PM 11/14/2019

3.Pesawat

inheritance - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects X

Source Packages

Services

Files

.../av... persegiPanjang.java segitiga.java segitigasamakali.java segitigasamasasi.java Kendaraan.java Mobil.java Pesawat.java

Source History

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 inheritancel;

6

7 /*

8 *

9 *

10 * @author LABREL-13

11 */

12 public class Pesawat extends Kendaraan{

13 String jenis = "Pesawat";

14 int jumlahPenumpang = 200;

15 }

16

Type here to search 1:1 10:03 PM 11/14/2019

Hasil

inheritance - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects X

Source Packages

Services

Files

.../av... segitigasamakali.java segitigasamasasi.java Kendaraan.java Mobil.java Pesawat.java inheritanceTest.java mainKendaraan.java

Source History

8

9 public class mainKendaraan {

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

11 String data;

12 Mobil m = new Mobil();

13 System.out.println(m.jenis);

14 System.out.println(m.warna);

15 System.out.println(m.roda);

16 System.out.println(m.jumlahKursi);

17

18 Pesawat p = new Pesawat();

19 System.out.println(p.jenis);

20 System.out.println(p.warna);

21 System.out.println(p.roda);

22 System.out.println(p.jumlahPenumpang);

23

24 Kendaraan k = new Kendaraan();

25 System.out.println(k.jenis);

Output - inheritance (run)

run:

Mobil

Putih

4

6

Pesawat

Putih

4

200

Mobil

Putih

4

BUILD SUCCESSFUL (total time: 1 second)

Output Type here to search 8:1 10:04 PM 11/14/2019

modul7 - NetBeans IDE 8.2

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

Projects Files Services

Source Packages <default package>

- KaryawanDemo.java
- Manager.java
- karyawan.java

modul7 Test Packages Libraries Test Libraries

Start Page History Source Search (Ctrl+F)

Source

```
7 //  
8 *  
9 * @author LABRPL  
10 */  
11 public class karyawan {  
12     private String nama ;  
13     private float gaji ;  
14     private int usia ;  
15  
16     public String getName() {  
17         return nama ;  
18     }  
19  
20     public void setName( String nama ) {  
21         this.nama = nama ;  
22     }  
23  
24     public float getGaji() {  
25         return gaji ;  
26     }  
27  
28     public int getUsia() {  
29         return usia ;  
30     }  
31  
32     public void setUsia( int usia ) {  
33         this.usia = usia ;  
34     }  
35 }
```

Navigator Members

karyawan

- getGaji(): float
- getNama(): String
- getUsia(): int
- setGaji(float gaji)
- setNama(String nama)
- setUsia(int usia)
- gaji : float
- nama : String
- usia : int

Output - modul7 (run) :

```
Ari  
10000.0  
21  
7.5  
20000.0  
BUILD SUCCESSFUL (total time: 0 seconds)
```

IN 15:24 15/11/2019

modul7 - NetBeans IDE 8.2

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

Projects Files Services

Source Packages <default package>

- KaryawanDemo.java
- Manager.java
- karyawan.java

modul7 Test Packages Libraries Test Libraries

Start Page History Source Search (Ctrl+F)

Source

```
9 /*  
10 * @author LABRPL  
11 */  
12 public class KaryawanDemo {  
13     public static void main( String[] args ) {  
14         Manager m1= new Manager();  
15         m1.setName("Ari");  
16         System.out.println(m1.getName());  
17  
18         Manager m2= new Manager();  
19         m2.setGaji(10000);  
20         System.out.println(m2.getGaji());  
21  
22         Manager m3= new Manager();  
23         m3.setUsia(21);  
24         System.out.println(m3.getUsia());  
25  
26         Manager m4= new Manager();  
27         System.out.println(m4.jamKerja());  
28  
29         Manager m5= new Manager();  
30         m5.setGaji(10000);  
31         m5.getGaji();  
32         System.out.println(m5.getGajiManager());  
33     }  
34 }
```

Navigator Members

KaryawanDemo

- main(String[] args)

Output - modul7 (run) :

```
Ari  
10000.0  
21  
7.5  
20000.0  
BUILD SUCCESSFUL (total time: 0 seconds)
```

IN 15:24 15/11/2019

modul7 - NetBeans IDE 8.2

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

Projects Files Services

Source Packages <default package>

- KaryawanDemo.java
- Manager.java
- karyawan.java

modul7 Test Packages Libraries Test Libraries

Start Page History Source Modul7.java karyawan.java KaryawanDemo.java Manager.java

Source History Search (Ctrl+F)

```
9  * @author LABRPL
10 /*
11  public class KaryawanDemo {
12      public static void main(String[] args) {
13          Manager m1= new Manager();
14          m1.setNama("Ari");
15          System.out.println(m1.getNama());
16
17          Manager m2= new Manager();
18          m2.setGaji(10000);
19          System.out.println(m2.getGaji());
20
21          Manager m3= new Manager();
22          m3.setUsia(21);
23          System.out.println(m3.getUsia());
24
25          Manager m4= new Manager();
26          m4.setJamKerja(8.5f);
27          System.out.println(m4.jamKerja());
28
29          Manager m5= new Manager();
30          m5.setGaji(10000);
31          m5.getGaji();
32          System.out.println(m5.getGajiManager());
33      }
34  }
35 
```

Navigator Members KaryawanDemo main(args)

Output - modul7 (run) Azi 10000.0 21 7.6 20000.0 BUILD SUCCESSFUL (total time: 0 seconds)

26:30 15:30 15/11/2019

modul7 - NetBeans IDE 8.2

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

Projects Files Services

Source Packages <default package>

- KaryawanDemo.java
- Manager.java
- karyawan.java

modul7 Test Packages Libraries Test Libraries

Start Page History Source Modul7.java karyawan.java KaryawanDemo.java Manager.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
7 /**
8  * @author LABRPL
9  */
10
11 public class Manager extends karyawan{
12     private float jamKerja = 7.5f;
13
14     public float jamKerja() {
15         return jamKerja;
16     }
17
18     public float getGajiManager() {
19         return getGaji() * 2;
20     }
21 }
22 
```

getGajiManager - Navigator Members Manager :: karyawan

- getGajiManager(): float
- jamKerja(): float
- jamKerja: float

Output - modul7 (run) Azi 10000.0 21 7.6 20000.0 BUILD SUCCESSFUL (total time: 0 seconds)

19:30 15:24 15/11/2019

modul7 - NetBeans IDE 8.2

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

Projects Files Services Start Page Modul7.java Karyawan.java KaryawanDemo.java Manager.java karyawan.java modul7 Test Packages Libraries Test Libraries

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
7 /**
8 *
9 * @author LABRPL
10 */
11 public class Manager extends karyawan{
12     private float jamKerja = 7.5f;
13
14     public float jamKerja() {
15         return jamKerja;
16     }
17
18     public void setJamKerja(float jamKerja){
19         this.jamKerja = jamKerja;
20     }
21
22     public float getGajiManager() {
23         return getGaji() * 2;
24     }
25 }
26

```

Navigator Members Manager : karyawan

- getGajiManager() : float
- jamKerja() : float
- setJamKerja(float jamKerja)
- jamKerja : float

Output - modul7 (run) :

```

Ari
10000.0
21
2.5
20000.0
BUILD SUCCESSFUL (total time: 0 seconds)

```

18:15 15/11/2019

Modul 8

1.anjing

Modul_8 - NetBeans IDE 8.2

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

Projects Services Files ...ape Anjing.java Bank.java BankDemo.java BankPasar.java BankPribadi.java BankSyariah.java BankUmum.java

Source History Search (Ctrl+F)

Projects Services Files Anjing.java Bank.java BankDemo.java BankPasar.java BankPribadi.java BankSyariah.java BankUmum.java

Source Packages <default package>

- Anjing.java
- Bank.java
- BankDemo.java
- BankPasar.java
- BankPribadi.java
- BankSyariah.java
- BankUmum.java
- Kucing.java
- TestPolymorphism.java
- pet.java

Test Packages Libraries Test Libraries modul10 PBO

```

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 /**
8  *
9  * @author Asus
10 */
11 public class Anjing extends pet{
12     public String perilaku(){
13         return "Menyukai Daging dan Tulang";
14     }
15     public String suara(){
16         return "Guk..Guk..Guk";
17     }
18 }
19

```

Output - Modul_8 (run) :

1:1 15/11/2019

Type here to search

File e Mail Chrome Win 4:25 AM ENG US 12/30/2019

2.bank

Modul_8 - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects Services Files <default config>

Source History

Anjing.java Bank.java BankDemo.java BankPasar.java BankPribadi.java BankSyariah.java BankUmum.java

Source Packages <default package>

- Anjing.java
- Bank.java
- BankDemo.java
- BankPasar.java
- BankPribadi.java
- BankSyariah.java
- BankUmum.java
- Kucing.java
- TestPolymorphism.java
- pet.java

Test Packages Libraries Test Libraries modul10 PBO

Output - Modul_8 (run) >>

```
/*
 * 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.
 */

/*
 * @author Asus
 */
public class Bank {
    protected int rasioBunga() {
        return 5;
    }
}
```

1.3Kb 89%

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3.bank demo

Modul_8 - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects Services Files <default config>

Source History

Anjing.java Bank.java BankDemo.java BankPasar.java BankPribadi.java BankSyariah.java BankUmum.java

Source Packages <default package>

- Anjing.java
- Bank.java
- BankDemo.java
- BankPasar.java
- BankPribadi.java
- BankSyariah.java
- BankUmum.java
- Kucing.java
- TestPolymorphism.java
- pet.java

Test Packages Libraries Test Libraries modul10 PBO

Output - Modul_8 (run) >>

```
/*
 * @author Asus
 */
public class BankDemo {
    public static void main(String[] args) {
        Bank bpr = new BankPribadi();
        Bank bu = new BankUmum();
        Bank bp = new BankPasar();
        Bank bs = new BankSyariah();

        System.out.println(
            "Bank Pribadi :" + bpr.rasioBunga() +"\n"+
            "Bank Umum :" + bu.rasioBunga() +"\n"+
            "Bank Pasar :" + bp.rasioBunga() +"\n"+
            "Bank Syariah :" + bs.rasioBunga()
        );
        BankUmum bkper = new BankPasar();
        BankUmum bksyr = new BankSyariah();

        System.out.println(
            "Bank Pasar :" + bkper.rasioBunga() +"\n"+
            "Bank Syariah :" + bksyr.rasioBunga()
        );
    }
}
```

0.1Kb 88%



4.bank pasar

Modul_8 - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects Services Files <default config>

Source Packages <default package> Anjing.java Bank.java BankDemo.java BankPasar.java BankPribadi.java BankSyariah.java BankUmum.java

Anjing.java Bank.java BankDemo.java BankPasar.java BankPribadi.java BankSyariah.java BankUmum.java

BankPasar.java

BankPribadi.java

BankSyariah.java

BankUmum.java

Kucing.java

TestPolymorphism.java

pet.java

Test Packages Libraries Test Libraries modul10 PBO

Source History

```
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
6 /**
7 *
8 *
9 * @author Asus
10 */
11 public class BankPasar extends BankUmum {
12     protected int rasioBunga() {
13         return 3;
14     }
15 }
```

Output - Modul_8 (run) >>

4.4KiB (86%) 0KiB

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5.bank pribadi

Modul_8 - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects Services Files <default config>

Source Packages <default package> Anjing.java Bank.java BankDemo.java BankPasar.java BankPribadi.java BankSyariah.java BankUmum.java

Anjing.java Bank.java BankDemo.java BankPasar.java BankPribadi.java BankSyariah.java BankUmum.java

BankPasar.java

BankPribadi.java

BankSyariah.java

BankUmum.java

Kucing.java

TestPolymorphism.java

pet.java

Test Packages Libraries Test Libraries modul10 PBO

Source History

```
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
6 /**
7 *
8 *
9 * @author Asus
10 */
11 public class BankPribadi extends Bank {
12     protected int rasioBunga() {
13         return 7;
14     }
15 }
```

Output - Modul_8 (run) >>

1.2KiB (85%) 0KiB

Type here to search ENG 4:28 AM US 12/30/2019

6.bank syariah

Modul_8 - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects Services Files <default config>

Source Packages <default package> Anjing.java Bank.java BankDemo.java BankPasar.java BankPribadi.java BankSyariah.java BankUmum.java pet.java Test Packages Libraries Test Libraries modul10 PBO

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
7 /**
8 *
9 * @author Asus
10 */
11 public class BankSyariah extends BankUmum{
12     protected int rasioBunga(){
13         return 0;
14     }
15 }
```

Output - Modul_8 (run) >>

1.3Kb (87%) 0.2Kb

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7.bank umum

Modul_8 - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects Services Files <default config>

Source Packages <default package> Anjing.java Bank.java BankDemo.java BankPasar.java BankPribadi.java BankSyariah.java BankUmum.java Kucing.java pet.java Test Packages Libraries Test Libraries modul10 PBO

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
7 /**
8 *
9 * @author Asus
10 */
11 public class BankUmum extends Bank{
12     protected int rasioBunga(){
13         return 9;
14     }
15 }
```

Output - Modul_8 (run) >>

7.1Kb (88%) 0.0Kb

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8.kucing

Modul_8 - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects Services Files <default config>

Source Packages <default package>

- Anjing.java
- Bank.java
- BankDemo.java
- BankPasar.java
- BankPribadi.java
- BankSyariah.java
- BankUmum.java
- Kucing.java
- TestPolymorphism.java
- pet.java

Test Packages Libraries Test Libraries modul10 PBO

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
7 /**
8 *
9 * @author Asus
10 */
11 public class Kucing extends pet{
12     public String perilaku(){
13         return "Menyukai Ikan";
14     }
15     public String suara(){
16         return "Meeow..Meeow";
17     }
18 }
```

Output - Modul_8 (run) >>

11:1 11:1 INS

0.5KiB / 87%

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9.test polymorphism

Modul_8 - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects Services Files <default config>

Source Packages <default package>

- Anjing.java
- Bank.java
- BankDemo.java
- BankPasar.java
- BankPribadi.java
- BankSyariah.java
- BankUmum.java
- Kucing.java
- TestPolymorphism.java
- pet.java

Test Packages Libraries Test Libraries modul10 PBO

Source History

```
3  /*
4  * To change this template file, choose Tools | Templates
5  * and open the template in the editor.
6  */
7 /**
8 *
9 * @author Asus
10 */
11 public class TestPolymorphism {
12     public static void main (String[] args){
13         Kucing k = new Kucing();
14         Anjing a = new Anjing();
15
16         k.beriNama("Tom");
17         a.beriNama("Bull");
18
19         System.out.println(
20             k.panggilNama()+"\n"+
21             k.perilaku()+"\n"+
22             k.suara()+"\n"+
23             a.panggilNama()+"\n"+
24             a.perilaku()+"\n"+
25             a.suara()
26         );
27     }
28 }
29 
```

Output - Modul_8 (run) >>

29:1 29:1 INS

0.4KiB / 87%

Type here to search ENG 4:30 AM US 12/30/2019

10.pet

The status bar at the bottom shows system information: 0.2Kb (87%), ENG 4:31 AM US 12/30/2019.

Modul 9

1. Abstrak class

2. Balok

PROJECT ABADI - NetBeans IDE 8.2

```

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 modul9;
7
8 /**
9  *
10  * @author Personal
11 */
12 public class Balok extends BangunRuang {
13     int p =7;
14     int l = 7;
15     int t = 7;
16
17
18     public int Volume() {
19         return p*l*t;
20     }
21
22     public int LuasPermukaan() {
23         return 2*((p*l)+(p*t)*(l*t));
24     }
25 }

```

Output - PROJECT ABADI (run) :

```

run:
Kelling = 44
Luas = 121

Kelling Persegi Panjang= 60000
Luas Persegi Panjang = 28000

Kelling Jajar Genjang = 27
Luas Jajar Genjang = 50

Kelling Segitiga = 50
Luas Segitiga = 25

```

3. Bangun ruang

PROJECT ABADI - NetBeans IDE 8.2

```

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 modul9;
7
8 /**
9  *
10  * @author Personal
11 */
12 abstract class BangunRuang {
13     public abstract int LuasPermukaan();
14     public abstract int Volume();
15
16     public int getVolume() {
17         return Volume();
18     }
19     public int getLuasPermukaan() {
20         return LuasPermukaan();
21     }
22 }

```

Output - PROJECT ABADI (run) :

```

run:
Kelling = 44
Luas = 121

Kelling Persegi Panjang= 60000
Luas Persegi Panjang = 28000

Kelling Jajar Genjang = 27
Luas Jajar Genjang = 50

Kelling Segitiga = 50
Luas Segitiga = 25

```

4. Bola

PROJECT ABADI - NetBeans IDE 8.2

```

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 modul9;
7
8 /**
9  *
10  * @author Personal
11 */
12 public class Bola extends BangunRuang{
13     int phi =22/7;
14     int r = 7;
15
16     public int Volume() {
17         return 4/3*phi*r*r*r;
18     }
19     public int LuasPermukaan(){
20         return 4*phi*r*r;
21     }
22 }

```

Output - PROJECT ABADI (run) :

```

run:
Kelling = 44
Luas = 121

Kelling Persegi Panjang= 60000
Luas Persegi Panjang = 28000

Kelling Jajar Genjang = 27
Luas Jajar Genjang = 50

Kelling Segitiga = 50
Luas Segitiga = 25

```

5. Jajar genjang

PROJECT ABADI - NetBeans IDE 8.2

```

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 modul9;
7
8 /**
9  *
10  * @author Personal
11 */
12 public class JajarGenjang extends methodAbstract{
13     int atas =10;
14     int bawah = 10;
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 - PROJECT ABADI (run) :

```

run:
Kelling = 44
Luas = 121

Kelling Persegi Panjang= 60000
Luas Persegi Panjang = 28000

Kelling Jajar Genjang = 27
Luas Jajar Genjang = 50

Kelling Segitiga = 50
Luas Segitiga = 25

```

6. Kerucut

PROJECT ABADI - NetBeans IDE 8.2

```

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 modul9;
7
8 /**
9  *
10 * @author Personal
11 */
12 public class Kerucut extends BangunRuang{
13     int phi =22/7;
14     int r = 7;
15     int t = 60;
16     int s = 10;
17
18     public int Volume() {
19         return 3/phi*r*t;
20     }
21     public int LuasPermukaan(){
22         return phi*r*(r+s);
23     }
24 }

```

Output - PROJECT ABADI (run) :

```

run:
Kelling = 44
Luas = 121

Kelling Persegi Panjang= 60000
Luas Persegi Panjang = 28000

Kelling Jajar Genjang = 27
Luas Jajar Genjang = 50

Kelling Segitiga = 50
Luas Segitiga = 25

```

7. Kubus

PROJECT ABADI - NetBeans IDE 8.2

```

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 modul9;
7
8 /**
9  *
10 * @author Personal
11 */
12 public class Kubus extends BangunRuang{
13     int s=7;
14
15     public int Volume() {
16         return s*s*s;
17     }
18     public int LuasPermukaan(){
19         return 6*(s*s);
20     }
21 }

```

Output - PROJECT ABADI (run) :

```

run:
Kelling = 44
Luas = 121

Kelling Persegi Panjang= 60000
Luas Persegi Panjang = 28000

Kelling Jajar Genjang = 27
Luas Jajar Genjang = 50

Kelling Segitiga = 50
Luas Segitiga = 25

```

8. Lingkaran

PROJECT ABADI - NetBeans IDE 8.2

```

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 modul9;
7
8 /**
9  * 
10 * @author Personal
11 */
12 public class Lingkaran extends methodAbstract{
13     int r =14;
14     int phi = 22/7;
15
16     public int luas() {
17         return (phi*r*r);
18     }
19     public int keliling(){
20         return 2*phi*r;
21     }
22 }
23
24

```

Output - PROJECT ABADI (run) :

```

run:
Kelling = 44
Luas = 121

Kelling Persegi Panjang= 60000
Luas Persegi Panjang = 28000

Kelling Jajar Genjang = 27
Luas Jajar Genjang = 50

Kelling Segitiga = 50
Luas Segitiga = 25

```

9. Method main

PROJECT ABADI - NetBeans IDE 8.2

```

10 /**
11  * @author Personal
12 */
13 public class MethodMain {
14     public static void main(String[] args){
15         Persegi ppg = new Persegi();
16         System.out.println("Kelling = "+ppg.getKell());
17         System.out.println("Luas = "+ppg.getLuas()+"\n");
18
19         PersegiPanjang pp = new PersegiPanjang();
20         System.out.println("Kelling Persegi Panjang= "+pp.getKell());
21         System.out.println("Luas Persegi Panjang = "+pp.getLuas()+"\n");
22
23         JajarGenjang jg = new JajarGenjang();
24         System.out.println("Kelling Jajar Genjang = "+jg.getKell());
25         System.out.println("Luas Jajar Genjang = "+jg.getLuas()+"\n");
26
27         Segitiga sg = new Segitiga();
28         System.out.println("Kelling Segitiga = "+sg.getKell());
29         System.out.println("Luas Segitiga = "+sg.getLuas()+"\n");
30
31         Lingkaran ling = new Lingkaran();
32         System.out.println("Kelling Lingkaran = "+ ling.getKell());
33         System.out.println("Luas Lingkaran = "+ ling.getLuas());
34     }
35 }

```

Output - PROJECT ABADI (run) :

```

run:
Kelling = 44
Luas = 121

Kelling Persegi Panjang= 60000
Luas Persegi Panjang = 28000

Kelling Jajar Genjang = 27
Luas Jajar Genjang = 50

Kelling Segitiga = 50
Luas Segitiga = 25

```

10. Method main bangun ruang

PROJECT ABADI - NetBeans IDE 8.2

```

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 modul9;
7
8 /**
9  *
10  * @author Personal
11 */
12 public class MethodmainBangunRuang {
13     public static void main(String[] args) {
14         Balok blk = new Balok();
15         System.out.println("Volume Balok= "+blk.Volume());
16         System.out.println("LuasPermukaan Balok= "+blk.LuasPermukaan()+"\n");
17
18         Kubus kbs = new Kubus();
19         System.out.println("Volume Kubus= "+kbs.Volume());
20         System.out.println("LuasPermukaan Kubus = "+kbs.LuasPermukaan()+"\n");
21
22         Bola bl = new Bola();
23         System.out.println("Volume Bola = "+bl.Volume());
24         System.out.println("LuasPermukaan Bola = "+bl.LuasPermukaan()+"\n");
25     }
26 }

```

Output - PROJECT ABADI (run) :

```

run:
Kelling = 44
Luas = 121

Kelling Persegi Panjang= 60000
Luas Persegi Panjang = 28000

Kelling Jajar Genjang = 27
Luas Jajar Genjang = 50

Kelling Segitiga = 50
Luas Segitiga = 25

```

11. Objek abstrak class

PROJECT ABADI - NetBeans IDE 8.2

```

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 modul9;
7
8 /**
9  *
10  * @author Personal
11 */
12 public class ObjekAbstrakClass {
13     public static void main(String [] args) {
14         TurunanAbstrakClass tac = new TurunanAbstrakClass(2,3,4);
15         tac.printX();
16         System.out.println(tac.kali());
17     }
18 }

```

Output - PROJECT ABADI (run) :

```

run:
Kelling = 44
Luas = 121

Kelling Persegi Panjang= 60000
Luas Persegi Panjang = 28000

Kelling Jajar Genjang = 27
Luas Jajar Genjang = 50

Kelling Segitiga = 50
Luas Segitiga = 25

```

12. Persegi

PROJECT ABADI - NetBeans IDE 8.2

```

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 modul9;
7
8 /**
9  *
10 * @author Personal
11 */
12 public class Persegi extends methodAbstract{
13     int sisi1;
14
15     public int luas() {
16         return sisi1*sisi2;
17     }
18     public int keliling() {
19         return 4*sisi1;
20     }
21 }

```

Output - PROJECT ABADI (run) :

```

run:
Kelling = 44
Luas = 121

Kelling Persegi Panjang= 60000
Luas Persegi Panjang = 28000

Kelling Jajar Genjang = 27
Luas Jajar Genjang = 50

Kelling Segitiga = 50
Luas Segitiga = 25

```

13. Persegi panjang

PROJECT ABADI - NetBeans IDE 8.2

```

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 modul9;
7
8 /**
9  *
10 * @author Personal
11 */
12 public class PersegiPanjang extends methodAbstract{
13     int panjang =500;
14     int lebar = 50;
15
16     public int luas() {
17         return panjang*lebar;
18     }
19     public int keliling(){
20         return 2*(panjang+lebar);
21     }
22 }

```

Output - PROJECT ABADI (run) :

```

run:
Kelling = 44
Luas = 121

Kelling Persegi Panjang= 60000
Luas Persegi Panjang = 28000

Kelling Jajar Genjang = 27
Luas Jajar Genjang = 50

Kelling Segitiga = 50
Luas Segitiga = 25

```

14. Prisma segitiga

PROJECT ABADI - NetBeans IDE 8.2

```

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 modul9;
7
8 /**
9  *
10  * @author Personal
11 */
12 public class PrismaSegitiga extends BangunRuang{
13     int luasAlas = 100;
14     int kelilingAlas = 100;
15     int t = 10;
16
17     public int Volume() {
18         return luasAlas*t;
19     }
20     public int LuasPermukaan(){
21         return (2*luasAlas)+(kelilingAlas*t);
22     }
23 }

```

Output - PROJECT ABADI (run) :

```

run:
Kelling = 44
Luas = 121

Kelling Persegi Panjang= 60000
Luas Persegi Panjang = 28000

Kelling Jajar Genjang = 27
Luas Jajar Genjang = 50

Kelling Segitiga = 50
Luas Segitiga = 25

```

15. Segitiga

PROJECT ABADI - NetBeans IDE 8.2

```

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 modul9;
7
8 /**
9  *
10  * @author Personal
11 */
12 public class Segitiga extends methodAbstract{
13     int alas=10;
14     int tinggi = 5;
15     int sisi1 =10;
16     int sisi2 = 20;
17     int sisi3 = 20;
18
19
20     public int luas() {
21         return (alas*tinggi)/2;
22     }
23     public int keliling(){
24         return (sisi1+sisi2+sisi3);
25     }
26 }

```

Output - PROJECT ABADI (run) :

```

run:
Kelling = 44
Luas = 121

Kelling Persegi Panjang= 60000
Luas Persegi Panjang = 28000

Kelling Jajar Genjang = 27
Luas Jajar Genjang = 50

Kelling Segitiga = 50
Luas Segitiga = 25

```

16. Turunan abstrak

PROJECT ABADI - NetBeans IDE 8.2

```

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 modul9;
7
8 /**
9  *
10  * @author Personal
11  */
12 public class TurunanAbstrakClass extends AbstrakClass{
13
14     int x;
15
16     public TurunanAbstrakClass (int a, int b, int c){
17         super(a,b,c);
18         x = a+b+c;
19     }
20
21     public void printX(){
22         System.out.println(x);
23     }
24
25 }

```

Output - PROJECT ABADI (run) :

```

run:
Kelling = 44
Luas = 121

Kelling Persegi Panjang= 60000
Luas Persegi Panjang = 28000

Kelling Jajar Genjang = 27
Luas Jajar Genjang = 50

Kelling Segitiga = 50
Luas Segitiga = 25

```

17. Method abstrak

PROJECT ABADI - NetBeans IDE 8.2

```

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 modul9;
7
8 /**
9  *
10  * @author Personal
11  */
12 public abstract class methodAbstract {
13     public abstract int luas();
14     public abstract int kelling();
15
16     public int getLuas(){
17         return luas();
18     }
19     public int getKelling(){
20         return kelling();
21     }
22 }

```

Output - PROJECT ABADI (run) :

```

run:
Kelling = 44
Luas = 121

Kelling Persegi Panjang= 60000
Luas Persegi Panjang = 28000

Kelling Jajar Genjang = 27
Luas Jajar Genjang = 50

Kelling Segitiga = 50
Luas Segitiga = 25

```

Modul 10

Laporan dan Tugas

Modul10 - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects X Modul10

Source Packages <default package>

- ActivityAnimal.java
- ActivityLampu.java
- ApikasiLampu.java
- Lampu.java
- Mamalia.java

Test Packages Libraries Test Libraries ProjectakhirPBO

ActivityAnimal.java

```
public interface ActivityAnimal {
    public void eat();
    public void travel();
}
```

Output

Modul10 (run) | running... | 5:1 | INS

Windows Type here to search 5:29 PM 12/9/2019

Modul10 - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects X Modul10

Source Packages <default package>

- ActivityAnimal.java
- ActivityLampu.java
- ApikasiLampu.java
- Lampu.java
- Mamalia.java

Test Packages Libraries Test Libraries ProjectakhirPBO

Mamalia.java

```
public class Mamalia implements ActivityAnimal{
    @Override
    public void eat(){
        System.out.println("Mammal eats");
    }

    @Override
    public void travel(){
        System.out.println("Mammal Travels ");
    }
    public int noOfLegs(){
        return 0;
    }

    public static void main(String[] args){
        Mamalia m = new Mamalia();
        m.eat();
        m.travel();
    }
}
```

Output

Modul10 (run) X Modul10 (run) #2 X

run:
Mammal eats
Mammal Travels
BUILD SUCCESSFUL (total time: 1 second)

Modul10 (run) | running... | 20:1 | INS

Windows Type here to search 5:32 PM 12/9/2019

Modul10 - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects X Modul10

Source Packages <default package>

- ActivityAnimal.java
- ActivityLampu.java
- AplikasiLampu.java
- Lampu.java
- Mamalia.java

Test Packages Libraries Test Libraries ProjectakhirPBO

Source History

```
public interface ActivityLampu {
    public static final int LAMPU_HIDUP=1;
    public static final int LAMPU_MATI=0;
    public static final int LAMPU_REDUK=2;
    public abstract void matikanLampu();
    public abstract void hidupkanLampu();
    public abstract void redupkanLampu();
}
```

Output

Modul10 (run) | running... | 9:1 | INS

5:33 PM 12/9/2019

Modul10 - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects X Modul10

Source Packages <default package>

- ActivityAnimal.java
- ActivityLampu.java
- AplikasiLampu.java
- Lampu.java
- Mamalia.java

Test Packages Libraries Test Libraries ProjectakhirPBO

Source History

```
public class Lampu implements ActivityLampu{
    public int statusLampu;

    @Override
    public void matikanLampu() {
        if(statusLampu == 0){
            System.out.println("Lampu sudah dalam kondisi mati");
        }else if(statusLampu == 1){
            statusLampu = 0;
            System.out.println("Lampu sudah dimatikan");
        }
    }

    @Override
    public void hidupkanLampu() {
        if(statusLampu == 1){
            System.out.println("Lampu sudah dinyalakan\n***");
        }else{
            statusLampu += 1;
            System.out.println("Lampu sudah dalam kondisi menyala");
        }
    }

    public int setSaklar(int saklar){
        return statusLampu = saklar;
    }

    @Override
    public void redupkanLampu(){
        if(statusLampu == 2){
            System.out.println("Lampu telah diredukan");
        }else{
    }}
```

Output

Modul10 (run) | running... | 1:1 | INS

5:34 PM 12/9/2019

Modul10 - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects X ...java minkoneksi.java terimakash.java koneksi.java ActivityAnimal.java ActivityLampu.java AplikasiLampu.java Lampu.java Mamalia.java

Source History

```

1 if(statusLampu == 1){
2     statusLampu -= 1;
3     System.out.println("Lampu sudah dimatikan");
4 }
5
6 @Override
7 public void hidupkanLampu(){
8     if(statusLampu == 1){
9         System.out.println("Lampu sudah dinyalakan\n***");
10    }else{
11        statusLampu += 1;
12        System.out.println("Lampu sudah dalam kondisi menyala");
13    }
14 }
15
16 public int setSaklar(int saklar){
17     return statusLampu = saklar;
18 }
19
20 @Override
21 public void redupkanLampu(){
22     if(statusLampu == 2){
23         System.out.println("Lampu telah diredukan");
24     }else{
25         statusLampu +=1;
26         System.out.println("Keredupan Lampu telah ditambah");
27     }
28 }
29
30 }
31
32
33
34
35
36
37
38 }
39

```

Output

Type here to search

Modul10 (run) running... 39:1 5:35 PM 12/9/2019

Modul10 - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects X ...java minkoneksi.java terimakash.java koneksi.java ActivityAnimal.java ActivityLampu.java AplikasiLampu.java Lampu.java Mamalia.java

Source History

```

1 import java.util.Scanner;
2 public class AplikasiLampu {
3     public static void main(String[] args){
4         Lampu lampu = new Lampu();
5         Scanner sc = new Scanner(System.in);
6         lampu.statusLampu = lampu.setSaklar(0);
7         System.out.println("Status Lampu = " + lampu.statusLampu +"\n Ketikkan");
8         System.out.println("1 Untuk menyalaikan Lampu\n0 Untuk mematikan Lampu\n2 Untuk meredupkan Lampu");
9
10        if(lampu.setSaklar(sc.nextInt()) == 0){
11            lampu.matiLampu();
12        }else if(lampu.statusLampu == 1){
13            lampu.hidupkanLampu();
14        }else{
15            lampu.redupkanLampu();
16        }
17    }
18 }
19
20

```

Output

Modul10 (run) Modul10 (run) #2

```

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

```

Modul10 (run) #2 running... (1 more...) 20:1 5:36 PM 12/9/2019

Modul 11

1. Outer_Demo.

```
/*
 * 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.
 */
/*
 * @author LABRPL-29
 */
public class Outer_Demo {
    class Nested_Demo{
    }
}
```

```
/*
 */
/*
 * @author LABRPL-29
 */
public class OuterDemo {
    int num;

    //inner class
    private class InnerDemo{
        private void print(){
            System.out.println("Ini merupakan method inner class");
        }
    }

    //akses method inner class dari method outer class
    void displayInner(){
        InnerDemo inner = new InnerDemo();
        inner.print();
    }
}
```

Output - Modul 11 (run)

```
run:
Ini adalah Method static nested class
BUILD SUCCESSFUL (total time: 0 seconds)
```

2. OuterDemo2

The screenshot shows the NetBeans IDE interface with the title "Modul 11 - NetBeans IDE 8.2". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help. The toolbar has icons for New Project, Open Project, Save, Undo, Redo, Cut, Copy, Paste, Find, Replace, and Run. The Projects tab shows a project named "Modul 11" with files like Outer.java, OuterDemo.java, OuterDemo2.java, OuterDemoMain.java, Outer_Demo.java, and NestedClass.java. The Files tab shows the code for OuterDemo2.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 /**
8  *
9  * @author LABRPL-29
10 */
11 public class OuterDemo2 {
12     private int num = 175;
13     public class Inner_Demo{
14         public int getNum(){
15             System.out.println("Ini adalah nilai dari variable private outerDemo");
16             return num;
17         }
18     }
19 }
20

```

The Navigator pane shows the members of OuterDemoMain. The Output pane shows the run results: "run: Ini adalah nilai dari variable private outerDemo 175 BUILD SUCCESSFUL (total time: 0 seconds)". The status bar at the bottom right shows the date and time: 12/13/2019, 3:42 PM.

3. OuterDemoMain

The screenshot shows the NetBeans IDE interface with the title "Modul 11 - NetBeans IDE 8.2". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help. The toolbar has icons for New Project, Open Project, Save, Undo, Redo, Cut, Copy, Paste, Find, Replace, and Run. The Projects tab shows a project named "Modul 11" with files like Outer.java, OuterDemo.java, OuterDemo2.java, OuterDemoMain.java, Outer_Demo.java, and NestedClass.java. The Files tab shows the code for OuterDemoMain.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 /**
8  *
9  * @author LABRPL-29
10 */
11 public class OuterDemoMain {
12     public static void main(String[] args){
13         //membuat Object Outerdemo
14         OuterDemo2 outer = new OuterDemo2();
15
16         //Membuat Object InnerDemo
17         OuterDemo2.Inner_Demo inner = outer.new Inner_Demo();
18         System.out.println(inner.getNum());
19     }
20 }
21

```

The Navigator pane shows the members of OuterDemoMain. The Output pane shows the run results: "run: Ini adalah nilai dari variable private outerDemo 175 BUILD SUCCESSFUL (total time: 0 seconds)". The status bar at the bottom right shows the date and time: 12/13/2019, 3:43 PM.

4. Outer

```

/*
 * 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 Outer;
public class Outer {
    static class NestedDemo{
        public void myMethod(){
            System.out.println("Ini adalah Method" + "static nested class");
        }
    }
    public static void main(String[] args){
        Outer.NestedDemo nested = new Outer.NestedDemo();
        nested.myMethod();
    }
}

```

Latihan

1. Nestedclass

```

/*
 * Author : LABRPL-29
 */
public class NestedClass {
    String nama = "Ari wibowo ganteng"; // Lengkapi Nama Saudara
    String nim = "L200180056"; // Lengkapi Dengan Nim Saudara

    public void printNama(){
        System.out.println(nama + " : " + nim);
    }

    static class StaticNestedClass{
        static String jurusan = "Informatika";
    }

    class InnerClass{
        void displayJurusan(){
            StaticNestedClass tampilJurusan = new StaticNestedClass();
            System.out.println("Jurusan = " + tampilJurusan.jurusan);
        }
    }
}

run:
Ari wibowo ganteng : L200180056
Jurusan = Informatika
BUILD SUCCESSFUL (total time: 0 seconds)

```

2. Main

Modul 11 - NetBeans IDE 8.2

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

Projects Files Services

Modul 11

Source Packages <default package> Latihan NestedClass.java NewClass.java

Test Packages Libraries Test Libraries

Navigator Members <empty>

```

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.printName();
16         NestedClass.InnerClass inner = nested.new InnerClass();
17         inner.displayJurusan();
18     }
19 }

```

Output

3:50 PM 12/13/2019

Modul 12

MODUL 12

1.DemoLabel

modul12 - NetBeans IDE 8.2

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

Projects Services Files

modul10 modul12

Source Packages GUI Demolabel.java DemoRadioButton.java DemoTextField.java FrameA.java FrameB.java Lighthouse.jpg Tugas1.java Tugas2.java Tulips.jpg Utama.java truck.jpeg

Test Packages Libraries Test Libraries

PBO ProjectakhirPBO

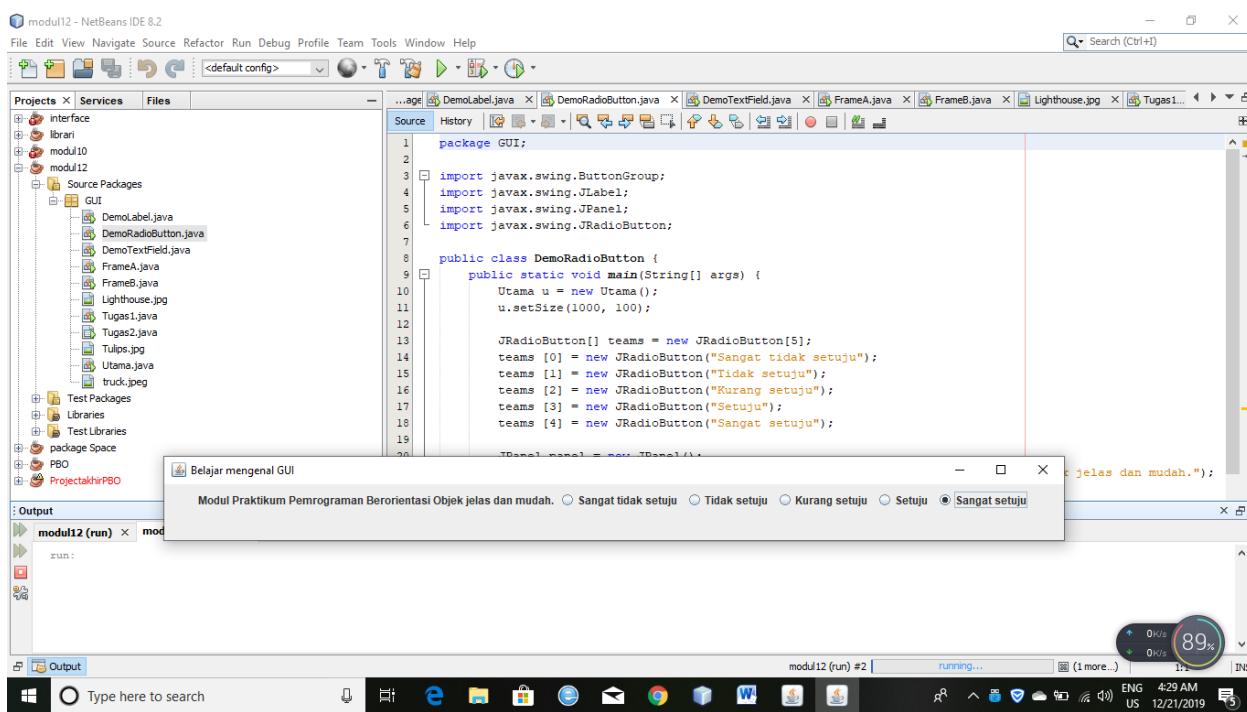
Output - modul12 (run)

run:

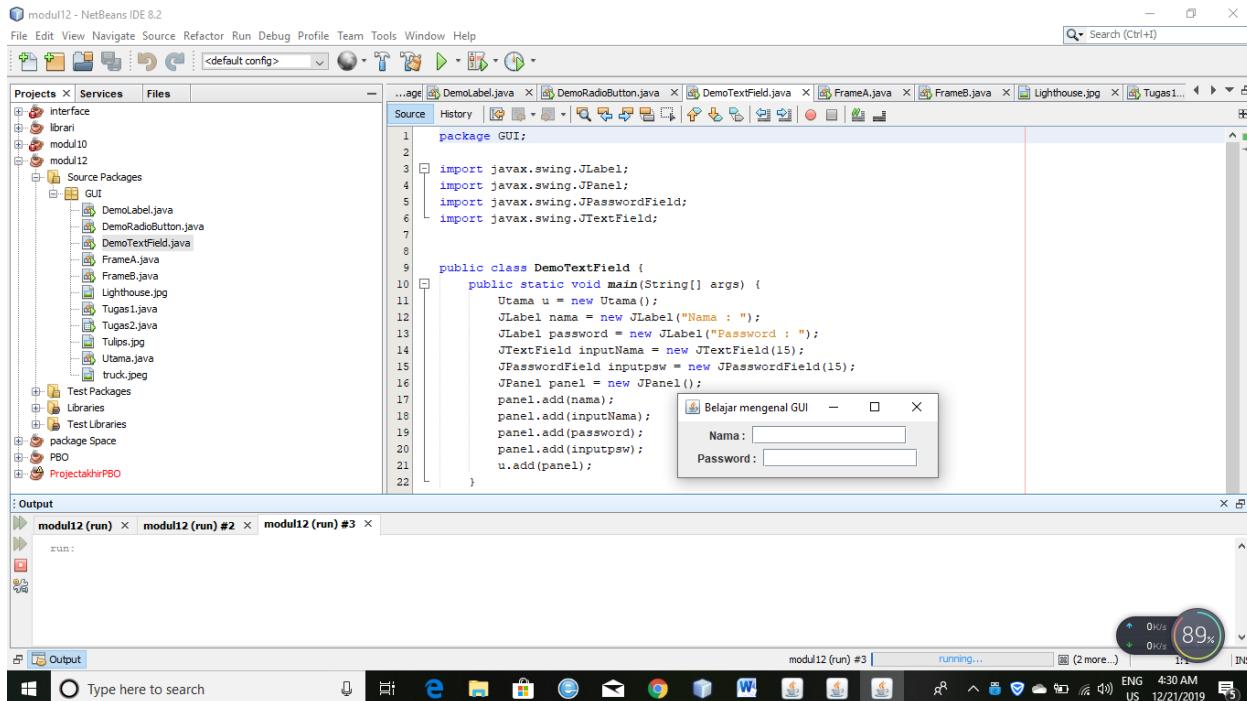
Output

The screenshot shows the NetBeans IDE interface with the 'modul12' project open. In the center, the 'DemoLabel.java' source code is displayed. The code creates a frame, sets its size to 500x500 pixels, loads an icon from the frame's class resources, and adds a label to the panel. The 'Output' tab at the bottom shows the command 'run:' followed by a progress bar indicating the application is running. A separate window titled 'Belajar mengenal GUI' is visible, showing a truck with multiple text overlays in Indonesian, such as 'Karya Sabahat', 'Dekop', 'TruckLifeStyle', and 'Tukang Perkasa'.

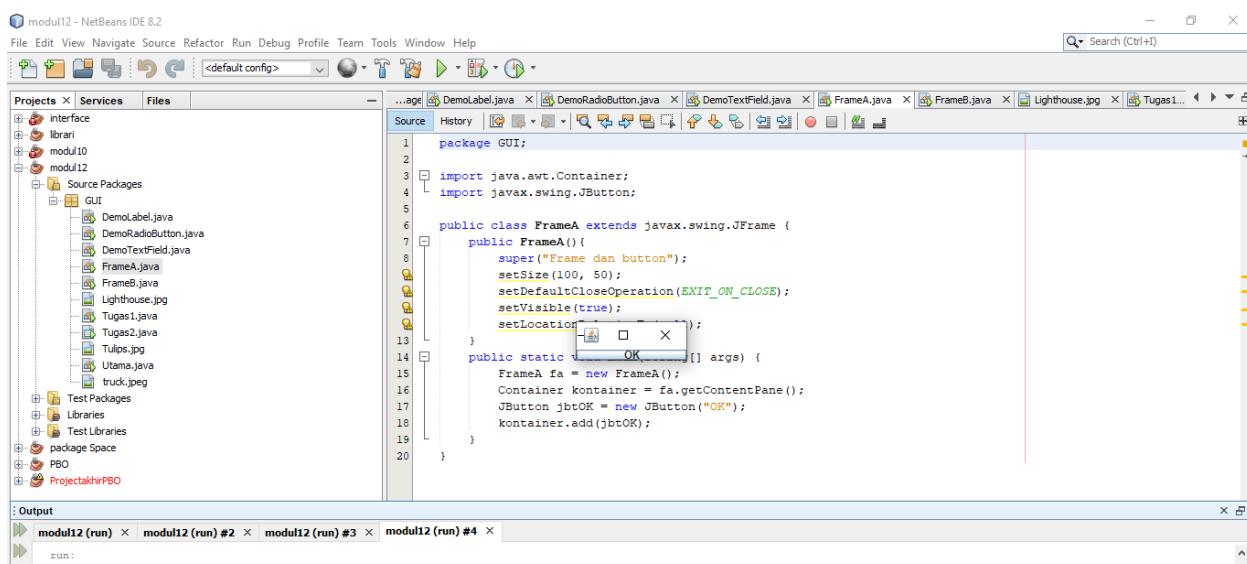
2.DemoRadioButton



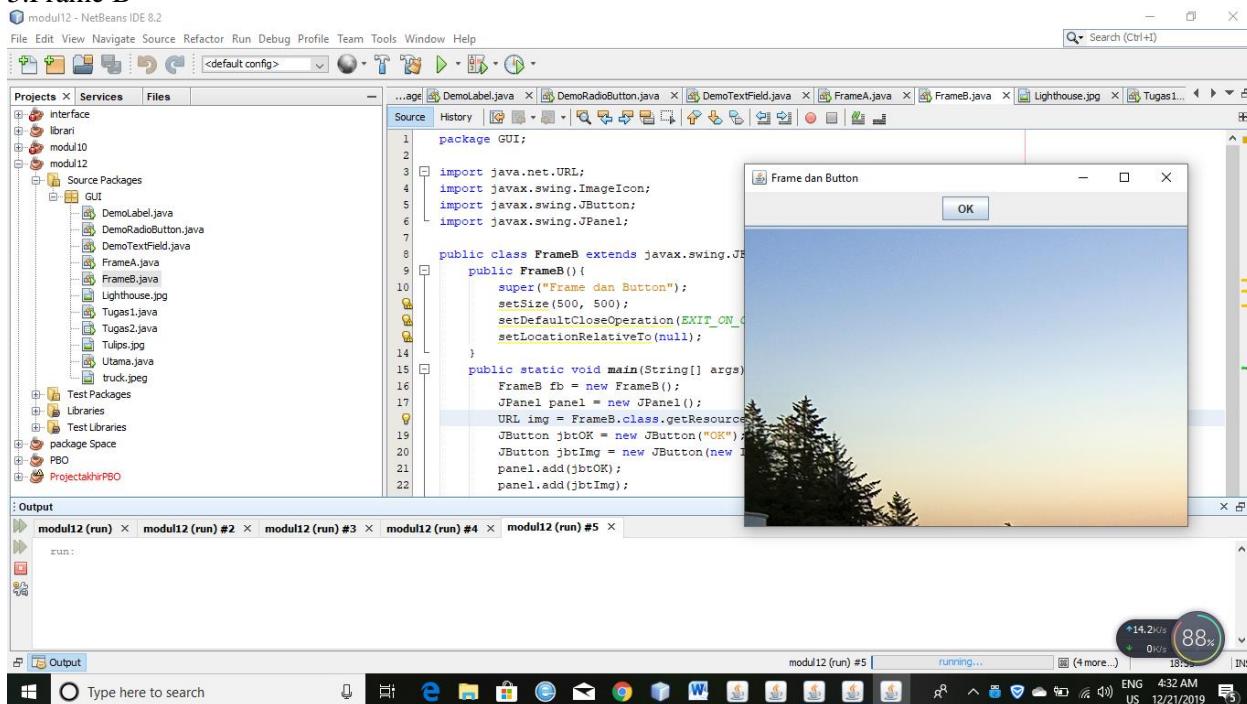
3.DemoTextField



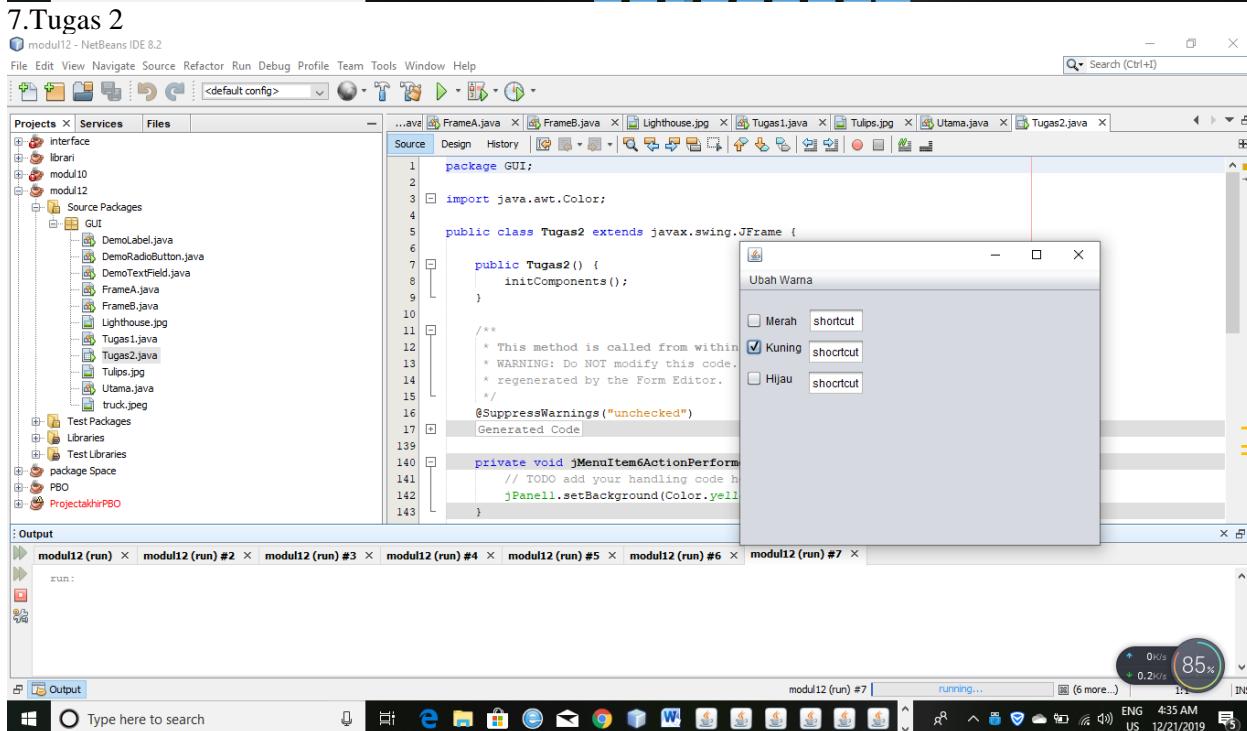
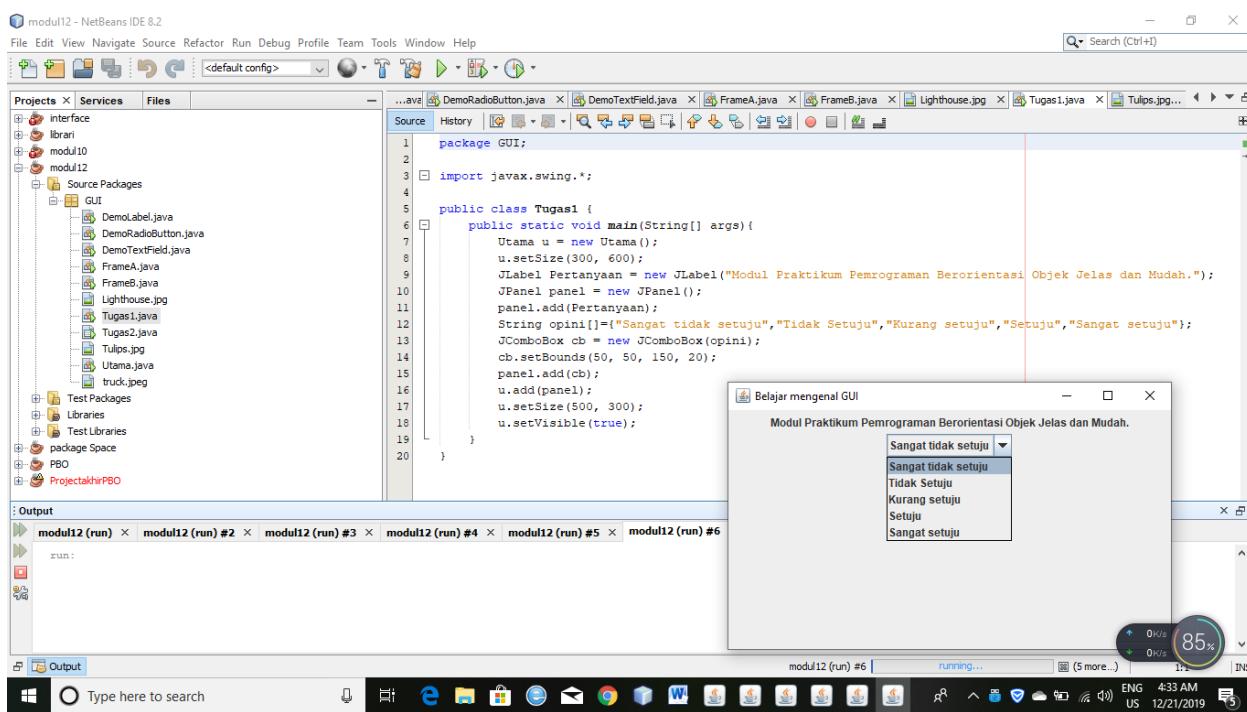
4.Frame A



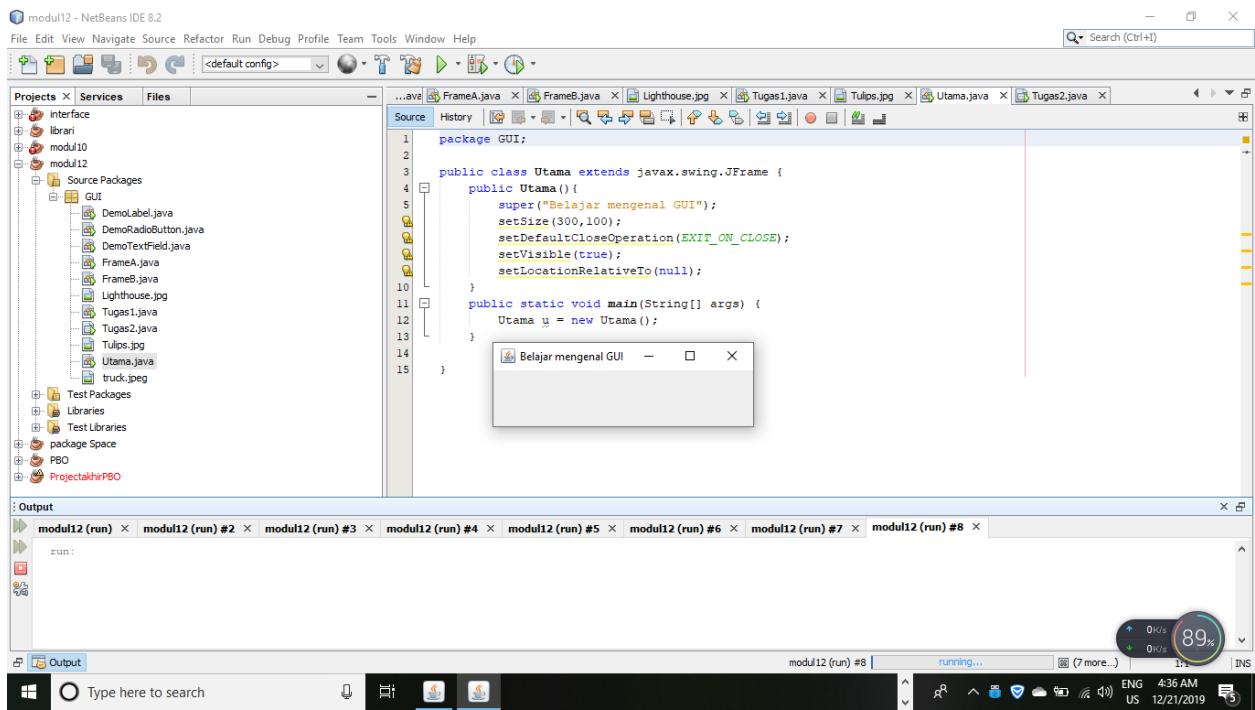
5.Frame B



6.Tugas 1



8.Utama



Hasil dari latihan 3