

Nama : Alif Al Amin

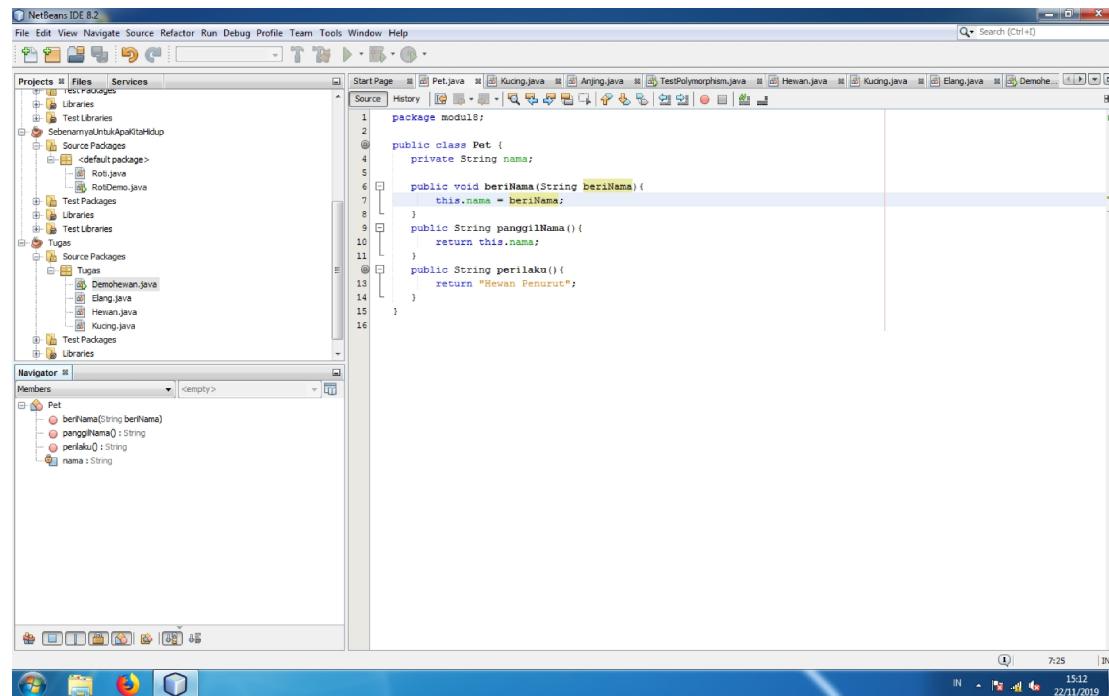
NIM : L200180082

Kelas : B

## Laporan Modul ke 8

### 8.2 Latihan

1. Membuat class kucing dan anjing dan melakukan overriding terhadap method perilaku() dan menambahkan satu method khusus



NetBeans IDE 8.2

```
1 package modul8;
2
3 public class Pet {
4     private String nama;
5
6     public void beriNama(String beriNama) {
7         this.nama = beriNama;
8     }
9     public String panggilNama() {
10        return this.nama;
11    }
12    public String perilaku(){
13        return "Hewan Penurut";
14    }
15 }
16
```

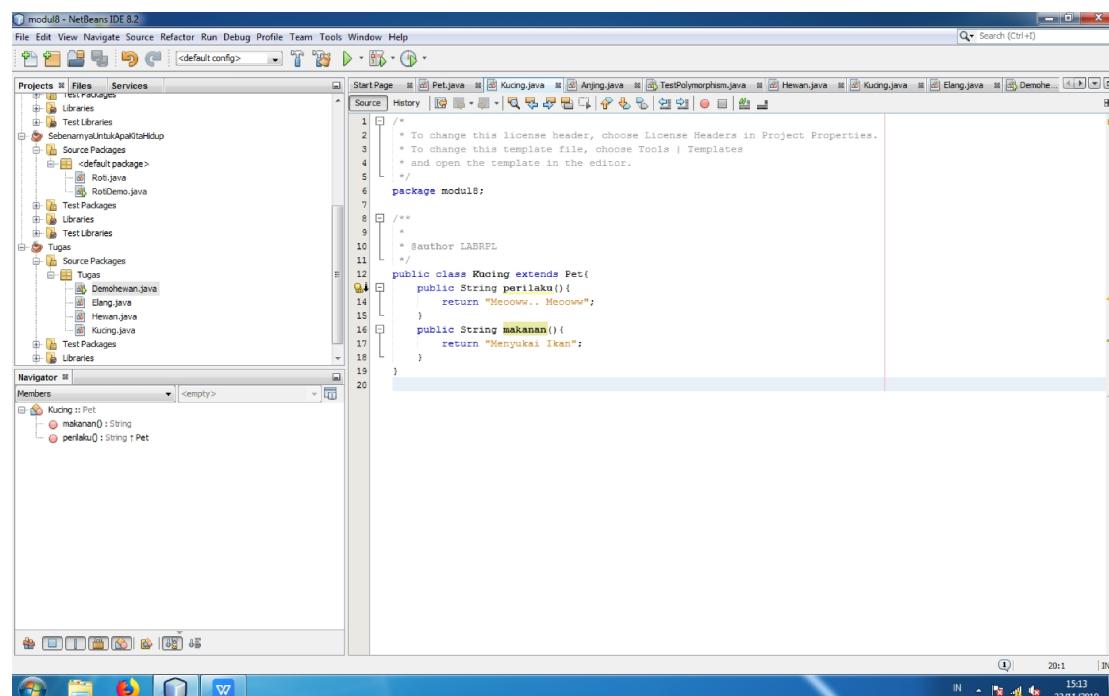
Projects # Files Services

Members Pet

- beriNama(String beriNama)
- panggilNama(): String
- perilaku(): String
- nama : String

Navigator #

Windows Taskbar: Internet Explorer, Mozilla Firefox, File Explorer, Start button



modul8 - 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 modul8;
7
8 /**
9  * Author LABRPL
10 */
11
12 public class Kucing extends Pet{
13     public String perilaku(){
14         return "Mecoww.. Mecoww";
15     }
16     public String makanan(){
17         return "Menyukai Ikan";
18     }
19 }
20
```

Projects # Files Services

Members Kucing

- makanan(): String
- perilaku(): String

Navigator #

Windows Taskbar: Internet Explorer, Mozilla Firefox, File Explorer, Start button

```
modul8 - NetBeans IDE 8.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Projects Files Services
Source History <default config> Start Page Pet.java Kucing.java Anjing.java TestPolymorphism.java Hewan.java Kucing.java Elang.java Demoche...
Pet.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 modul8;
7
8 /**
9  *
10 * @author LABRPL
11 */
12 public class Anjing extends Pet{
13     public String perilaku(){
14         return "Guk.. Guk.. Guk.. ";
15     }
16     public String makanan(){
17         return "Menyukai Daging dan Tulang";
18     }
19 }

```

Navigator  
Members  
Anjing : Pet  
makanan(): String  
perilaku(): String | Pet

## 2. Membuat class TestPolymorphism untuk output

```
modul8 - NetBeans IDE 8.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Projects Files Services
Source History <default config> Start Page Pet.java Kucing.java Anjing.java TestPolymorphism.java Hewan.java Kucing.java Elang.java Demoche...
TestPolymorphism.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 modul8;
7
8 /**
9  *
10 * @author LABRPL
11 */
12 public class TestPolymorphism extends Pet{
13     public static void main(String[] args) {
14         Kucing k1 = new Kucing();
15         k1.beriNama("TOM");
16         System.out.println(k1.panggilNama());
17         System.out.println(k1.makanan());
18         System.out.println(k1.perilaku());
19
20         Anjing a1 = new Anjing();
21         a1.beriNama("BULL");
22         System.out.println(a1.panggilNama());
23         System.out.println(a1.makanan());
24         System.out.println(a1.perilaku());
25     }
26 }

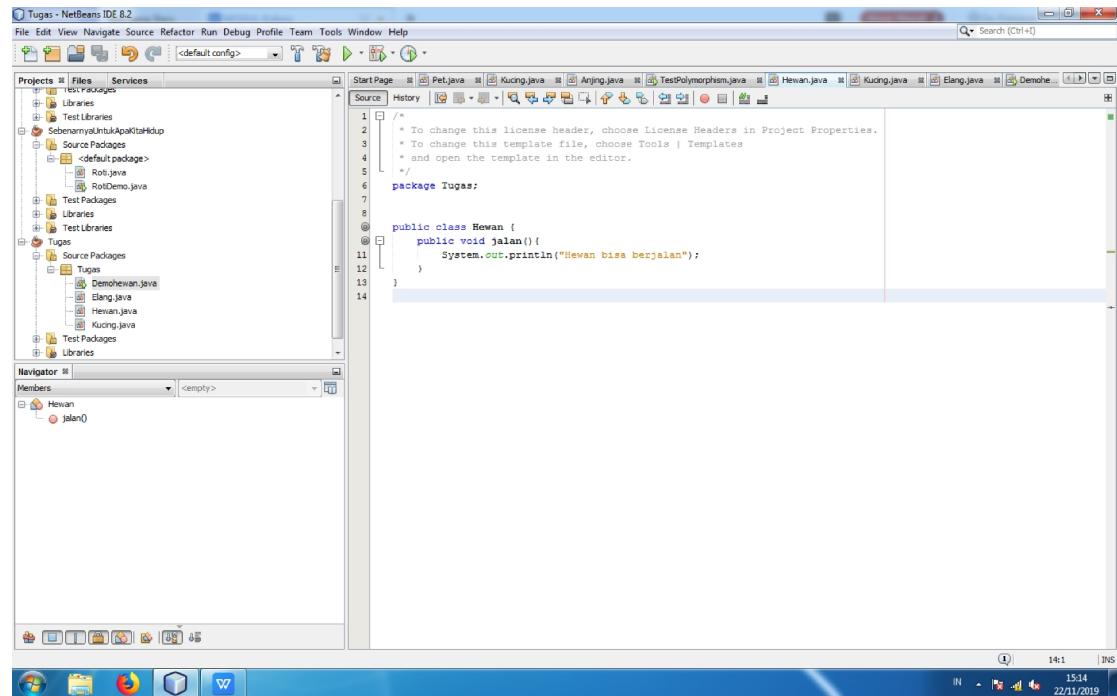
```

Output - modul8 (run) :

```
run:
TOM
Menyukai Ikan
Mecoww.. Meoww
BULL
Menyukai Daging dan Tulang
Guk.. Guk.. Guk..
BUILD SUCCESSFUL (total time: 0 seconds)
```

## 8.3 Tugas

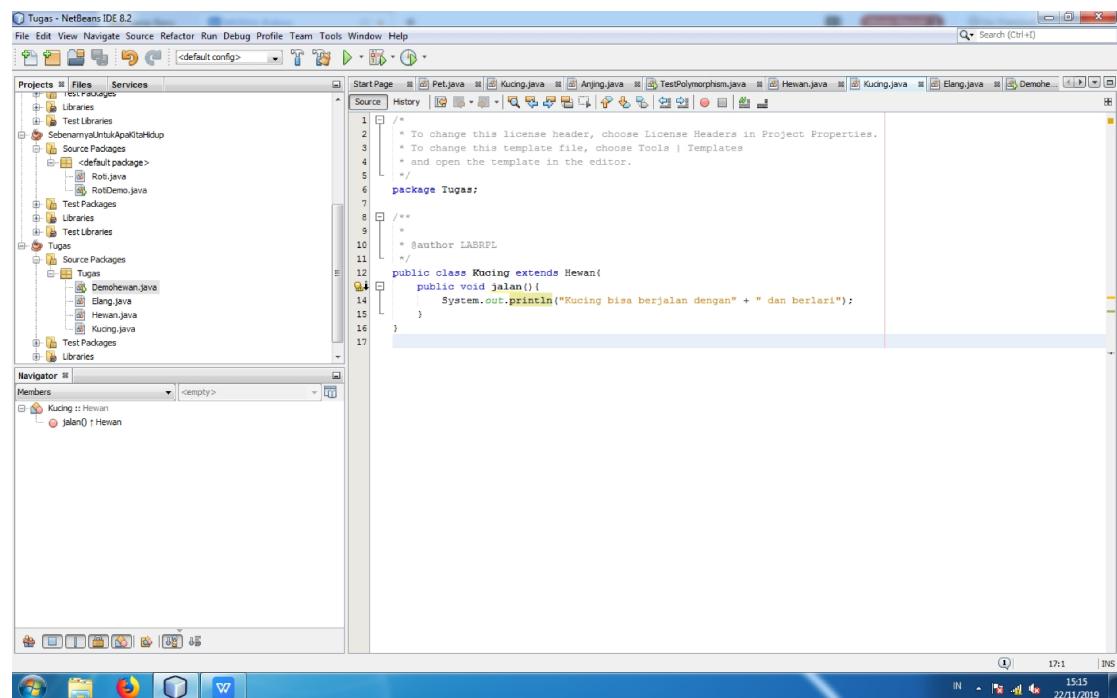
### 1. Membuat class Elang dan overriding method jalan()



The screenshot shows the NetBeans IDE interface with the title bar "Tugas - 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, Run, Stop, and others. The Projects tab shows a project named "SobernerUntukitaHidup" with packages like Test Packages, Libraries, and Source Packages containing files like Pet.java, Kucing.java, Anjing.java, TestPolymorphism.java, Hewan.java, Kucing.java, Elang.java, and Demohe... The Navigator tab shows members of the Hewan class: jalan(). The Source tab displays the following Java code:

```
/*
 * 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;

public class Hewan {
    public void jalan(){
        System.out.println("Hewan bisa berjalan");
    }
}
```



The screenshot shows the NetBeans IDE interface with the title bar "Tugas - 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, Run, Stop, and others. The Projects tab shows the same project structure as the previous screenshot. The Navigator tab shows members of the Kucing class: Hewan::jalan(). The Source tab displays the following Java code:

```
/*
 * 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;

public class Kucing extends Hewan{
    public void jalan(){
        System.out.println("Kucing bisa berjalan dengan " + " dan berlari");
    }
}
```

Tugas - NetBeans IDE 8.2

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

Projects Files Services

SebenarnyaUntukApalataHidup

Source Packages

<default package>

Rot.java

RotDemo.java

Test Packages

Libraries

Tugas

Source Packages

Demohewan.java

Elang.java

Hewan.java

Kucing.java

Test Packages

Libraries

Source

History

Start Page Pet.java Kucing.java Anjing.java TestPolymorphism.java Hewan.java Kucing.java Elang.java Demohewan.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 Tugas;
7
8 public class Elang {
9     public void jalan(){
10         System.out.println("Elang bisa berjalan dengan " + " dan terbang");
11     }
12 }
13 
```

Navigator

Members

Bang

jalan()

IN 13:1 15:15 22/11/2019

Tugas - NetBeans IDE 8.2

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

Projects Files Services

SebenarnyaUntukApalataHidup

Source Packages

<default package>

Rot.java

RotDemo.java

Test Packages

Libraries

Tugas

Source Packages

Demohewan.java

Elang.java

Hewan.java

Kucing.java

Test Packages

Libraries

Source

History

Start Page Pet.java Kucing.java Anjing.java TestPolymorphism.java Hewan.java Kucing.java Elang.java Demohewan.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 Tugas;
7
8 /**
9  * @author LABRPL
10 */
11
12 public class Demohewan {
13     public static void main(String[] args){
14         Hewan h = new Hewan();
15         h.jalan();
16         Kucing k = new Kucing();
17         k.jalan();
18         Elang e = new Elang();
19         e.jalan();
20     }
21 }
22 
```

Navigator

Members

Demohewan

main(String[] args)

Output - Tugas (run) #

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

IN 22:1 15:16 22/11/2019

## 2. Membuat overloading constructor dari class CustomerData

```
1 package Tugas;
2
3 public class CustomerData {
4     String nama;
5     String alamat;
6     String tanggallahir;
7     String pekerjaan;
8     int gaji;
9
10    public CustomerData(String nama, String pekerjaan, int gaji){
11        this.nama = nama;
12        this.pekerjaan = pekerjaan;
13        this.gaji = gaji;
14    }
15
16    public CustomerData(String nama, String alamat){
17        this.nama = nama;
18        this.alamat = alamat;
19    }
20
21    public void tempatgl(){
22        System.out.println(
23            "Nama: " + this.nama + "\n" +
24            "Alamat: " + this.alamat + "\n"
25        );
26    }
27
28    public void pekerjaan(){
29        System.out.println(
30            "Nama: " + this.nama + "\n" +
31            "Pekerjaan: " + this.pekerjaan + "\n" +
32            "Gaji: " + this.gaji + "\n"
33        );
34    }
35}
```

## 3. Membuat method main() dan membuat 5 object beserta output

```
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  * @author LABRPL
10 */
11
12 public class DemoOverloadingConst {
13     public static void main(String[] args){
14         CustomerData c1 = new CustomerData("Alif", "Kartasura");
15         c1.tempatgl();
16         CustomerData c2 = new CustomerData("Zilong", "Web Dev", 1000000);
17         c2.pekerjaan();
18         CustomerData c3 = new CustomerData("Alice", "Solo");
19         c3.tempatgl();
20         CustomerData c4 = new CustomerData("Raja", "Wirausaha", 400000);
21         c4.pekerjaan();
22         CustomerData c5 = new CustomerData("Gusion", "Monogiri");
23         c5.tempatgl();
24     }
25 }
26
```

Tugas - NetBeans IDE 8.2

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

Source History |

Projects Files Services

JavaApplication2

Source Packages

- javaapplication2
  - JavaApplication2.java

Libraries

modul8

Source Packages

- modul8
  - Anjing.java
  - Kucing.java
  - Modul8.java
  - Pet.java
  - TestPolymorphism.java

Test Packages

Test Libraries

SebenarnyaUntukApaItaHidup

Source Packages

- default package
  - DemoOverloadingConst.java

Navigator

Members

DemoOverloadingConst

- main(String[] args)

Output - Tugas (run)

```

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 LABRPL
11  */
12 public class DemoOverloadingConst {
13     public static void main(String[] args){
14         CustomerData c1 = new CustomerData("Alif", "Kartasura");
15         c1.tampil();
16         CustomerData c2 = new CustomerData("Zilong", "Web Dev", 1000000);
17         c2.tampil();
18         CustomerData c3 = new CustomerData("Alice", "Solo");
19         c3.tampil();
20         CustomerData c4 = new CustomerData("Mira", "Mirusaha", 4000000);
21     }
22 }

```

Output:

- run:
  - Nama: Alif  
Alamat: Kartasura
  - Nama: Zilong  
Pekerjaan: Web Dev  
Gaji: 1000000
  - Nama: Alice  
Alamat: Solo
  - Nama: Maja  
Pekerjaan: Mirusaha  
Gaji: 4000000
  - Nama: Guison  
Alamat: Wonogiri

BUILD SUCCESSFUL (total time: 0 seconds)

IN 26:1 15:49 22/11/2019

#### 4. Diagram UML class bank

Tugas - NetBeans IDE 8.2

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

Source History |

Projects Files Services

Start Page Bank.java BankPribadi.java BankKumuh.java BankPasar.java BankSyariah.java BankDemo.java

Source History |

Source

```

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 LABRPL
11  */
12 public class Bank {
13     public int rasioBunga(){
14         return 3;
15     }
16 }

```

Output - Tugas (run)

run:

- Rasio bunga bank : 3 persen
- Rasio bunga bank pribadi : 2 persen
- Rasio bunga bank umum : 4 persen
- Rasio bunga bank pasar : 1 persen
- Rasio bunga bank syariah : 0 persen

BUILD SUCCESSFUL (total time: 0 seconds)

IN 17:1 12:30 PM 22/11/2019

Tugas - NetBeans IDE 8.2

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

Projects X Files Services Start Page X Bank.java X BankPribadi.java X BankUmum.java X BankPasar.java X BankSyariah.java X BankDemo.java X <default config>

Source History

Bank.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 package Tugas;
6
7 /**
8 * @author Alfamn
9 */
10 public class BankPribadi extends Bank{
11     public int rasioBunga(){
12         return 2;
13     }
14 }
15
16
17 
```

Navigator X Members <empty>

BankPribadi :: Bank  
    ↳ rasioBunga(): int + Bank

Output - Tugas (run) X

```
run:
Rasio bunga bank : 3 persen
Rasio bunga bank pribadi : 2 persen
Rasio bunga bank umum : 4 persen
Rasio bunga bank pasar : 1 persen
Rasio bunga bank syariah : 0 persen
BUILD SUCCESSFUL (total time: 0 seconds)
```

17:1 INS 1231 PM

Tugas - NetBeans IDE 8.2

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

Projects X Files Services Start Page X Bank.java X BankPribadi.java X BankUmum.java X BankPasar.java X BankSyariah.java X BankDemo.java X <default config>

Source History

Bank.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 package Tugas;
6
7 /**
8 * @author Alfamn
9 */
10 public class BankUmum extends Bank{
11     public int rasioBunga(){
12         return 4;
13     }
14 }
15
16
17 
```

Navigator X Members <empty>

BankUmum :: Bank  
    ↳ rasioBunga(): int + Bank

Output - Tugas (run) X

```
run:
Rasio bunga bank : 3 persen
Rasio bunga bank pribadi : 2 persen
Rasio bunga bank umum : 4 persen
Rasio bunga bank pasar : 1 persen
Rasio bunga bank syariah : 0 persen
BUILD SUCCESSFUL (total time: 0 seconds)
```

17:1 INS 1232 PM

Tugas - NetBeans IDE 8.2

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

default config > Search (Ctrl+F)

Projects X Files Services

Start Page X Bank.java X BankPribadi.java X BankUmum.java X BankPasar.java X BankSyariah.java X BankDemo.java X

Source History

Bank.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 package Tugas;
6
7 /**
8 * 
9 * @author Alifann
10 */
11 public class BankPasar extends BankUmum{
12     public int rasioBunga(){
13         return 1;
14     }
15 }
16
17 
```

Navigator X

Members <empty>

BankPasar :: BankUmum

ratioBunga0 : int + BankUmum

Output - Tugas (run) X

run:

```
Rasio bunga bank : 3 persen
Rasio bunga bank pribadi : 2 persen
Rasio bunga bank umum : 4 persen
Rasio bunga bank pasar : 1 persen
Rasio bunga bank syariah : 0 persen
BUILD SUCCESSFUL (total time: 0 seconds)
```

17:1 12:32 PM INS

Tugas - NetBeans IDE 8.2

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

default config > Search (Ctrl+F)

Projects X Files Services

Start Page X Bank.java X BankPribadi.java X BankUmum.java X BankPasar.java X BankSyariah.java X BankDemo.java X

Source History

Bank.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 package Tugas;
6
7 /**
8 * 
9 * @author Alifann
10 */
11 public class BankSyariah extends BankUmum{
12     public int rasioBunga(){
13         return 0;
14     }
15 }
16
17 
```

Navigator X

Members <empty>

BankSyariah :: BankUmum

ratioBunga0 : int + BankUmum

Output - Tugas (run) X

run:

```
Rasio bunga bank : 3 persen
Rasio bunga bank pribadi : 2 persen
Rasio bunga bank umum : 4 persen
Rasio bunga bank pasar : 1 persen
Rasio bunga bank syariah : 0 persen
BUILD SUCCESSFUL (total time: 0 seconds)
```

17:1 12:32 PM INS

## - Main() dan output

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

- File Menu:** File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
- Toolbar:** Standard NetBeans toolbar with icons for file operations.
- Project Explorer:** Shows a project named "Tugas" containing several source files: Bank.java, BankDemo.java, BankPribadi.java, BankUmum.java, BankPasar.java, BankSyariah.java, and BankDemo.java.
- Source Editor:** Displays the content of the BankDemo.java file. The code defines a main method that creates instances of different bank classes (Bank, BankPribadi, BankUmum, BankPasar, BankSyariah) and prints their respective interest rates.
- Output Window:** Shows the run output for the Tugas project. It displays the printed statements from the main method and a successful build message.
- System Tray:** Shows standard Windows system tray icons.

```
1 package Tugas;
2
3 /**
4 * @author Alfaan
5 */
6
7 public class BankDemo {
8     public static void main(String[] args) {
9         Bank bl = new Bank();
10        System.out.println("Rasio bunga bank : " + bl.rasioBunga() + " persen");
11        BankPribadi bpri = new BankPribadi();
12        System.out.println("Rasio bunga bank pribadi : " + bpri.rasioBunga() + " persen");
13        BankUmum bul = new BankUmum();
14        System.out.println("Rasio bunga bank umum : " + bul.rasioBunga() + " persen");
15        BankPasar bpal = new BankPasar();
16        System.out.println("Rasio bunga bank pasar : " + bpal.rasioBunga() + " persen");
17        BankSyariah bsy = new BankSyariah();
18        System.out.println("Rasio bunga bank syariah : " + bsy.rasioBunga() + " persen");
19    }
20 }
```

Output - Tugas (run) X

```
run:
Rasio bunga bank : 3 persen
Rasio bunga bank pribadi : 2 persen
Rasio bunga bank umum : 4 persen
Rasio bunga bank pasar : 1 persen
Rasio bunga bank syariah : 0 persen
BUILD SUCCESSFUL (total time: 0 seconds)
```