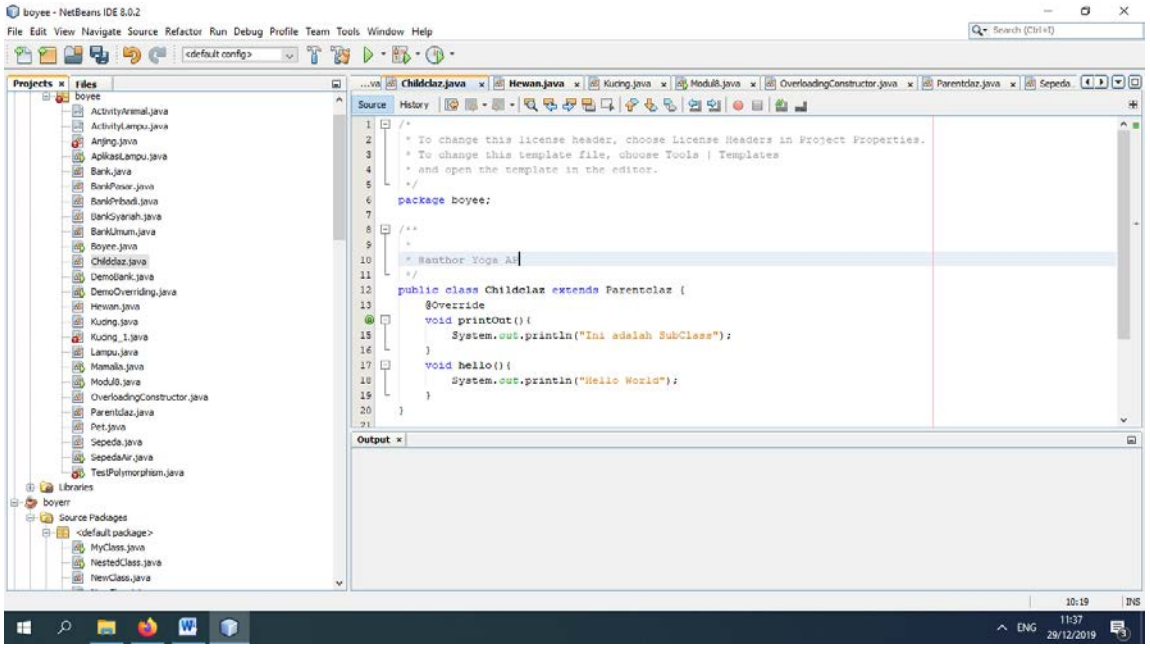
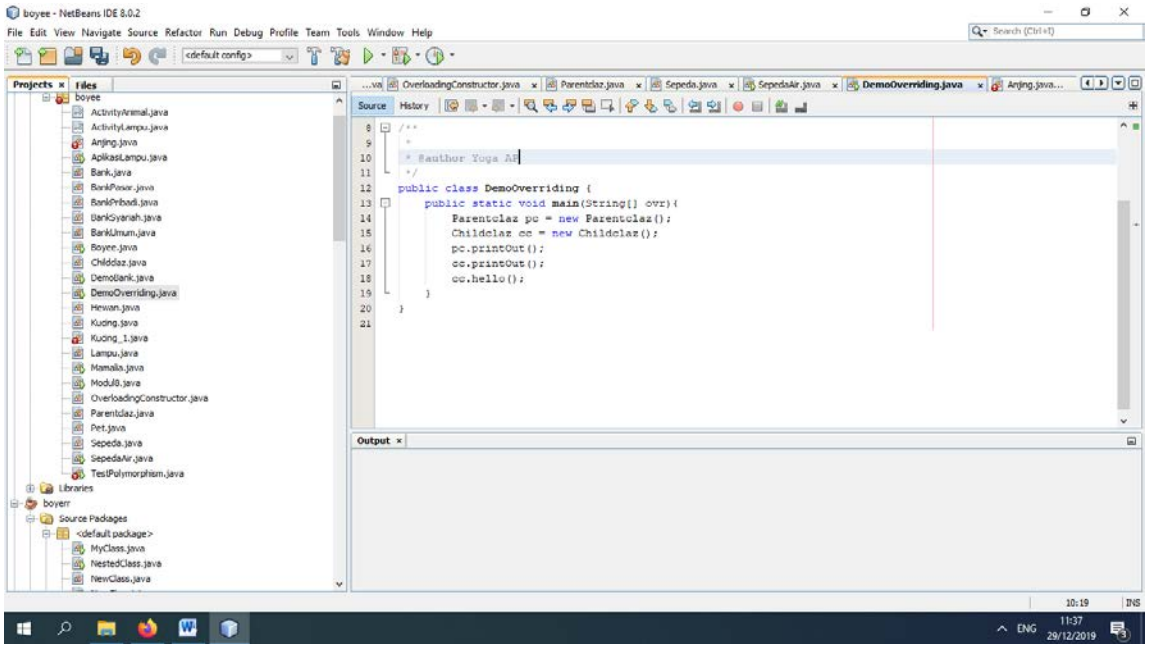
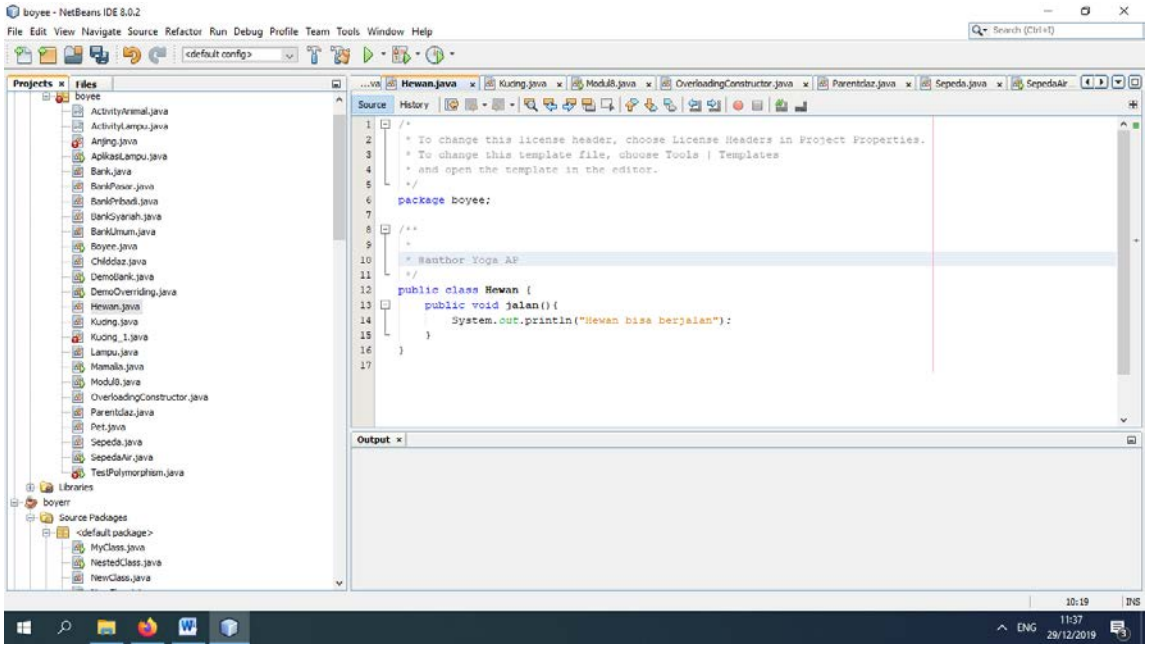
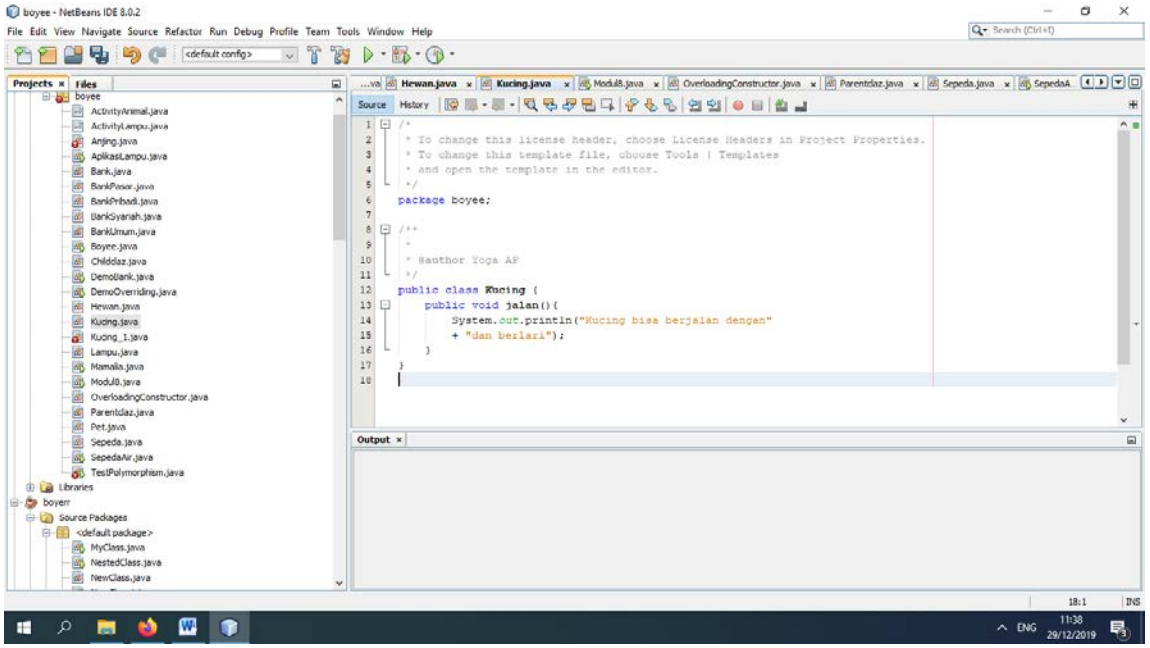
Nama : Yoga Ade P
NIM : L200180204
Kelas : E (Prak. PBO)

MODUL 8






boyee - NetBeans IDE 8.0.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Hewan.java
Kucing.java
Modul8.java
OverloadingConstructor.java
Parentclaz.java
Sepeda.java
Source History
/*
* 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 boyee;
/**
*
* @author Yoga AP
*/
public class Hewan {
public void jalan(){
System.out.println("Hewan bisa berjalan");
}
}
Output
10:19
INS
ENG
11:37
29/12/2019


boyee - NetBeans IDE 8.0.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Hewan.java
Kucing.java
Modul8.java
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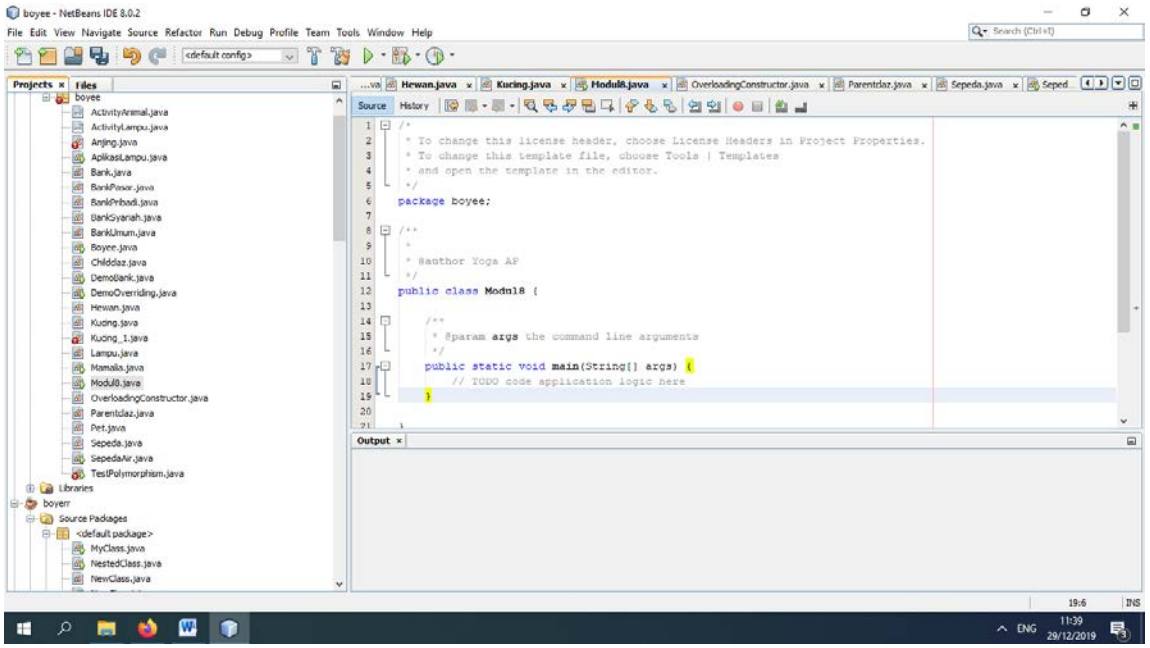
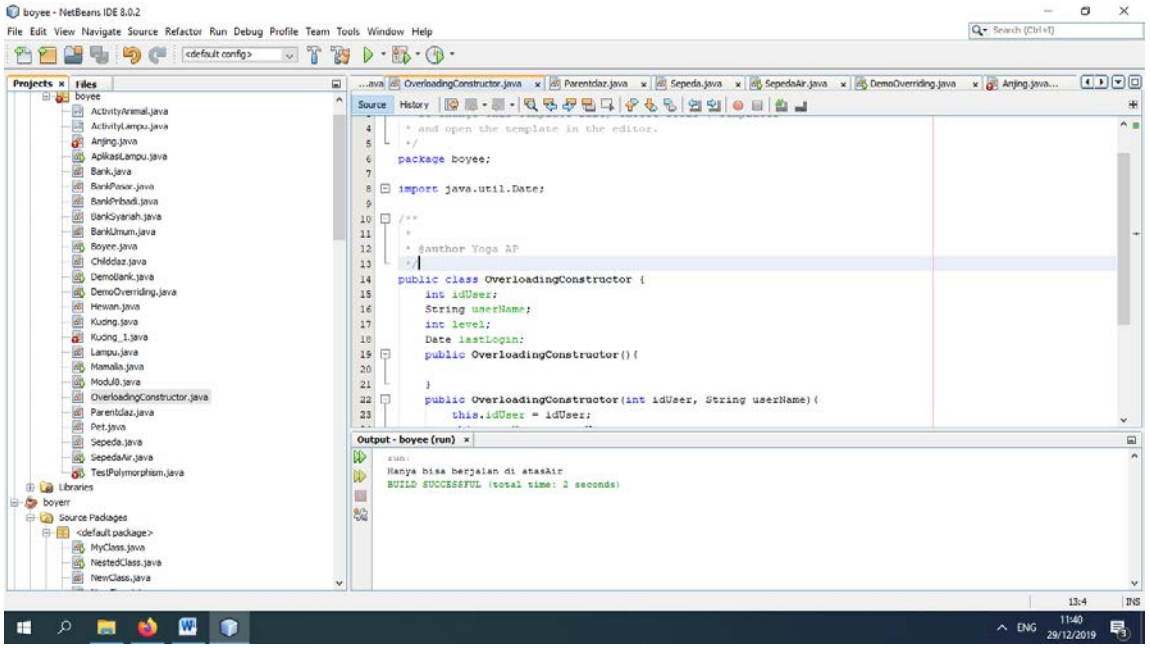
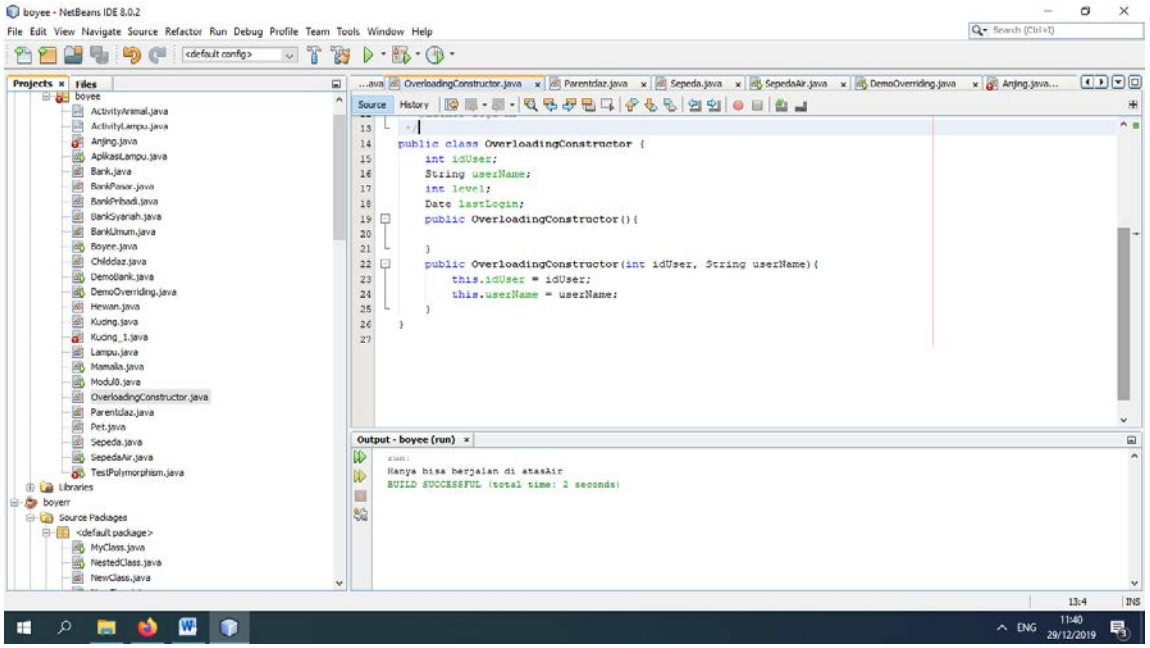
Parentclaz.java
Sepeda.java
Source History
/*
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
package boyee;
/**
*
* @author Yoga AP
*/
public class Kucing {
public void jalan(){
System.out.println("Kucing bisa berjalan dengan"
+ "dan berlari");
}
}
Output
18:1
INS
ENG
11:38
29/12/2019


boyee - NetBeans IDE 8.0.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Hewan.java
Kucing.java
Modul8.java
OverloadingConstructor.java
Parentclaz.java
Sepeda.java
Source History
/*
* 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 boyee;
/**
*
* @author Yoga AP
*/
public class Modul8 {
/**
* @param args the command line arguments
*/
public static void main(String[] args) {
// TODO code application logic here
}
}
Output
19:6
INS
ENG
11:39
29/12/2019


boyee - NetBeans IDE 8.0.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Projects Files
boyee
ActivityAnimal.java
ActivityLampu.java
Anjing.java
AplikasLampu.java
Bank.java
BankPosar.java
BankPribadi.java
BankSyariah.java
BankUmum.java
Boyee.java
Childdaz.java
DemoBank.java
DemoOverriding.java
Hewan.java
Kuding.java
Kuding_1.java
Lampu.java
Mamalia.java
Modul8.java
OverloadingConstructor.java
Parentdaz.java
Pet.java
Sepeda.java
SepedaAir.java
TestPolymorphism.java
Libraries
boyerr
Source Packages
<default package>
MyClass.java
NestedClass.java
NewClass.java
OverloadingConstructor.java
Parentdaz.java
Sepeda.java
SepedaAir.java
DemoOverriding.java
Anjing.java...
Source History
* and open the template in the editor.
*/
package boyee;
import java.util.Date;
/**
*
* @author Yoga AP
*/
public class OverloadingConstructor {
int idUser;
String userName;
int level;
Date lastLogin;
public OverloadingConstructor(){
}
public OverloadingConstructor(int idUser, String userName){
this.idUser = idUser;
Output - boyee (run)
run:
Hanya bisa berjalan di atasAir
BUILD SUCCESSFUL (total time: 2 seconds)
13:4
INS
ENG
11:40
29/12/2019


boyee - NetBeans IDE 8.0.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Projects Files
boyee
ActivityAnimal.java
ActivityLampu.java
Anjing.java
AplikasLampu.java
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BankPribadi.java
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DemoBank.java
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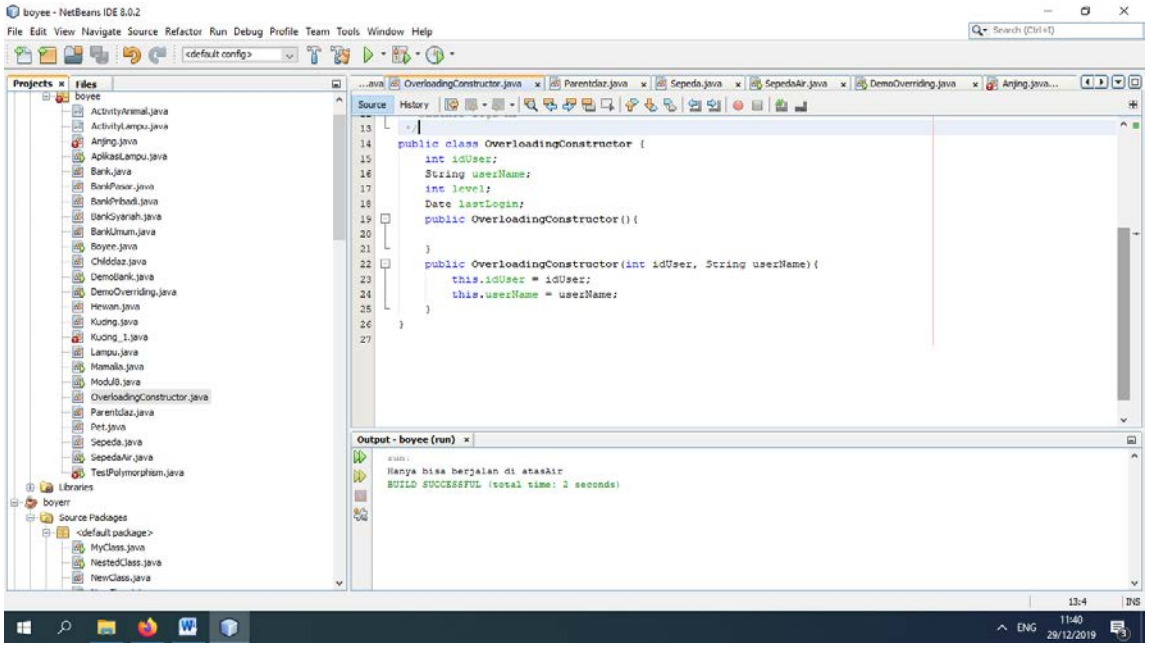
NewClass.java
OverloadingConstructor.java
Parentdaz.java
Sepeda.java
SepedaAir.java
DemoOverriding.java
Anjing.java...
Source History
*/
public class OverloadingConstructor {
int idUser;
String userName;
int level;
Date lastLogin;
public OverloadingConstructor(){
}
public OverloadingConstructor(int idUser, String userName){
this.idUser = idUser;
this.userName = userName;
}
}
Output - boyee (run)
run:
Hanya bisa berjalan di atasAir
BUILD SUCCESSFUL (total time: 2 seconds)
13:4
INS
ENG
11:40
29/12/2019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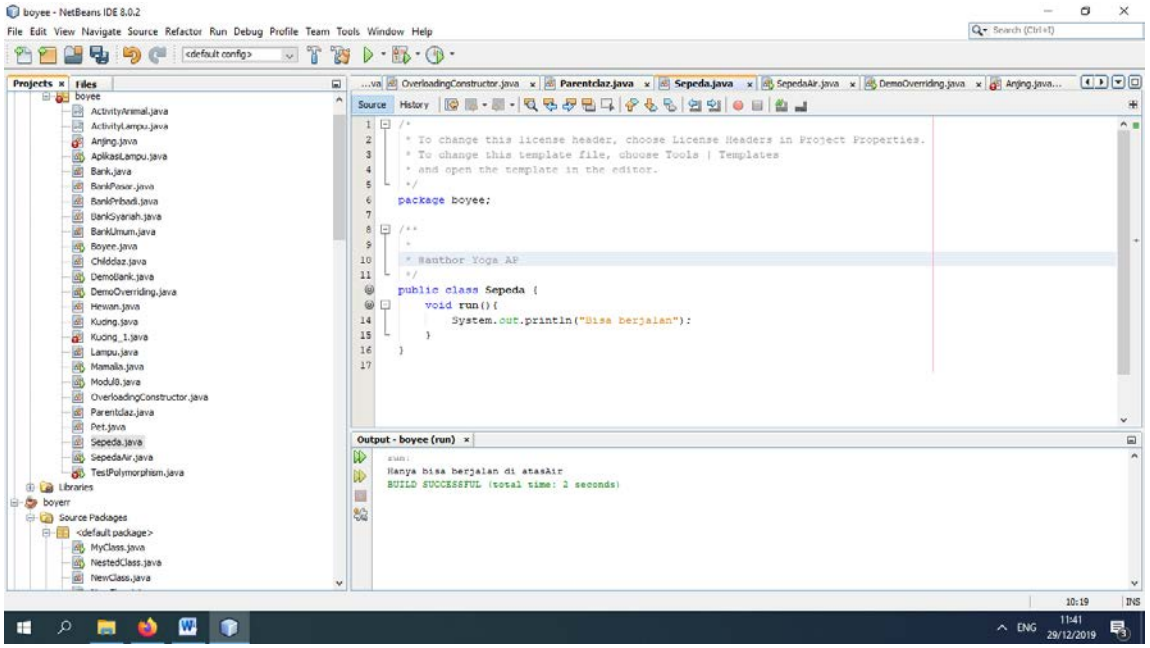
Parentdaz.java
Sepeda.java
SepedaAir.java
DemoOverriding.java
Anjing.java...
Source History
*/
public class OverloadingConstructor {
int idUser;
String userName;
int level;
Date lastLogin;
public OverloadingConstructor(){
}
public OverloadingConstructor(int idUser, String userName){
this.idUser = idUser;
this.userName = userName;
}
}
Output - boyee (run)
run:
Hanya bisa berjalan di atasAir
BUILD SUCCESSFUL (total time: 2 seconds)
13:4
INS
ENG
11:40
29/12/2019


boyee - NetBeans IDE 8.0.2
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<default package>
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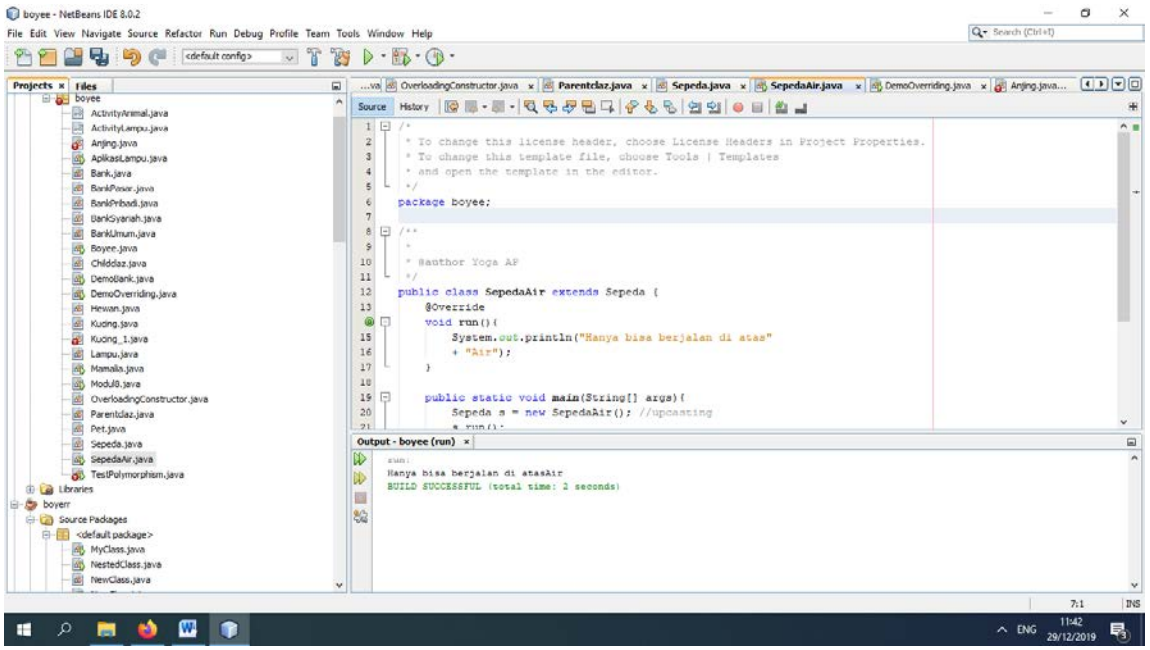
NestedClass.java
NewClass.java
Sepeda.java
Source History
/*
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
package boyee;
/**
*
* @author Yoga AP
*/
public class Sepeda {
void run(){
System.out.println("Bisa berjalan");
}
}
Output - boyee (run)
run:
Hanya bisa berjalan di atasAir
BUILD SUCCESSFUL (total time: 2 seconds)
10:19
INS
ENG
11:41
29/12/2019


boyee - NetBeans IDE 8.0.2
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Pet.java
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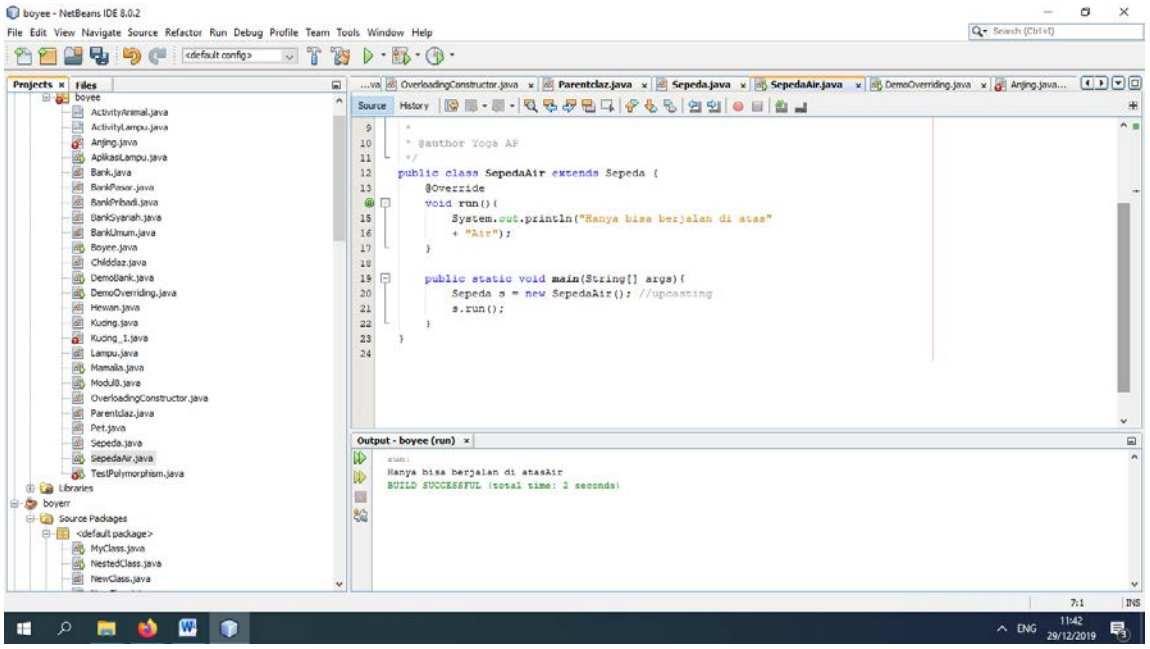
SepedaAir.java
TestPolymorphism.java
Libraries
boyerr
Source Packages
<default package>
MyClass.java
NestedClass.java
NewClass.java
SepedaAir.java
Source History
/*
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
package boyee;
/**
*
* @author Yoga AP
*/
public class SepedaAir extends Sepeda {
@Override
void run(){
System.out.println("Hanya bisa berjalan di atas"
+ "Air");
}
public static void main(String[] args){
Sepeda s = new SepedaAir(); //upcasting
Output - boyee (run)
run:
Hanya bisa berjalan di atasAir
BUILD SUCCESSFUL (total time: 2 seconds)
7:1
INS
ENG
11:42
29/12/2019


boyee - NetBeans IDE 8.0.2
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Pet.java
Sepeda.java
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Libraries
boyerr
Source Packages
<default package>
MyClass.java
NestedClass.java
NewClass.java
SepedaAir.java
Source History
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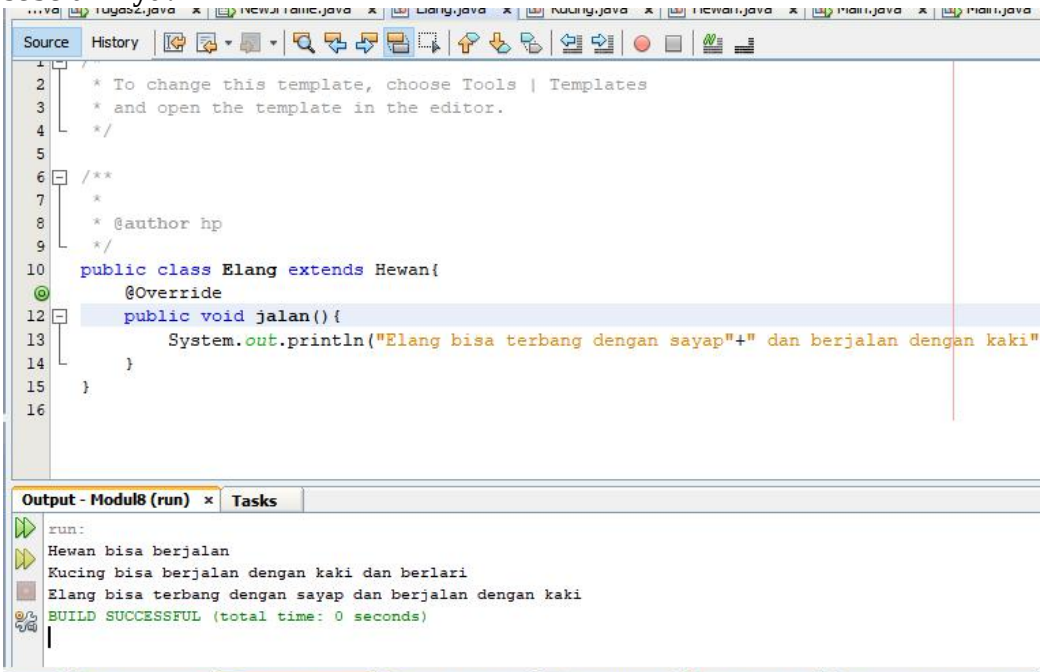
* @author Yoga AP
*/
public class SepedaAir extends Sepeda {
@Override
void run(){
System.out.println("Hanya bisa berjalan di atas"
+ "Air");
}
public static void main(String[] args){
Sepeda s = new SepedaAir(); //upcasting
s.run();
}
}
Output - boyee (run)
run:
Hanya bisa berjalan di atasAir
BUILD SUCCESSFUL (total time: 2 seconds)
7:1
INS
ENG
11:42
29/12/2019

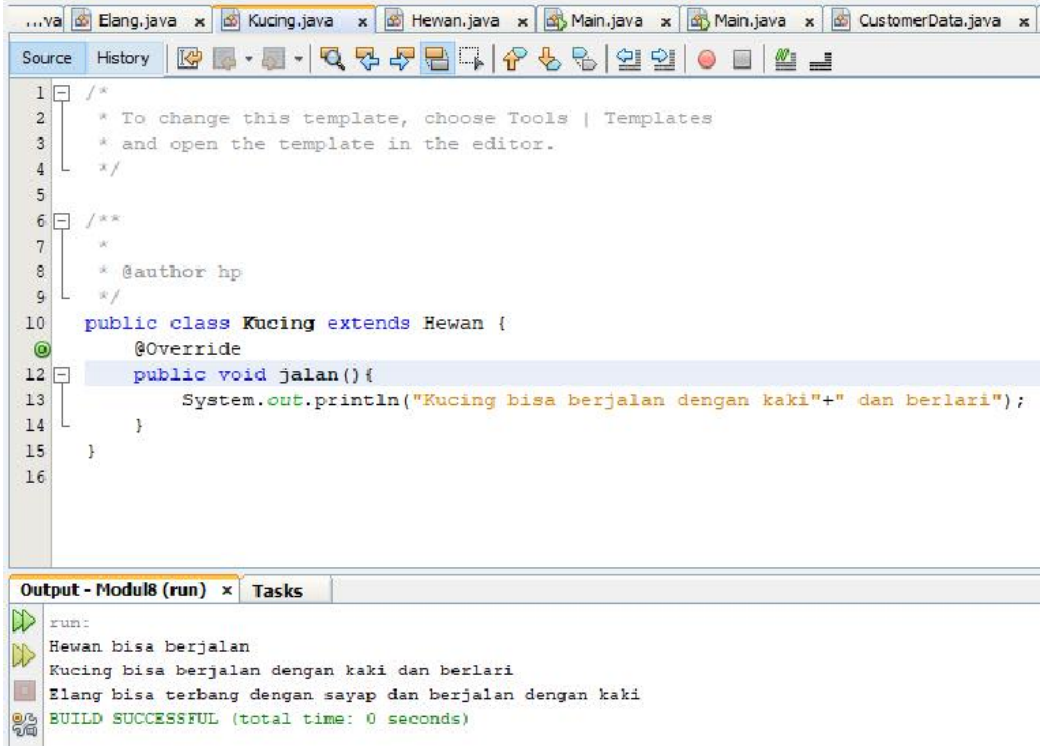
Tugas Modul 8

1. **Lihat kembali Program. 4 mengenai Overriding, buatlah class Elang yang memiliki method jalan() namun implementasinya berbeda dari kedua class sebelumnya!**



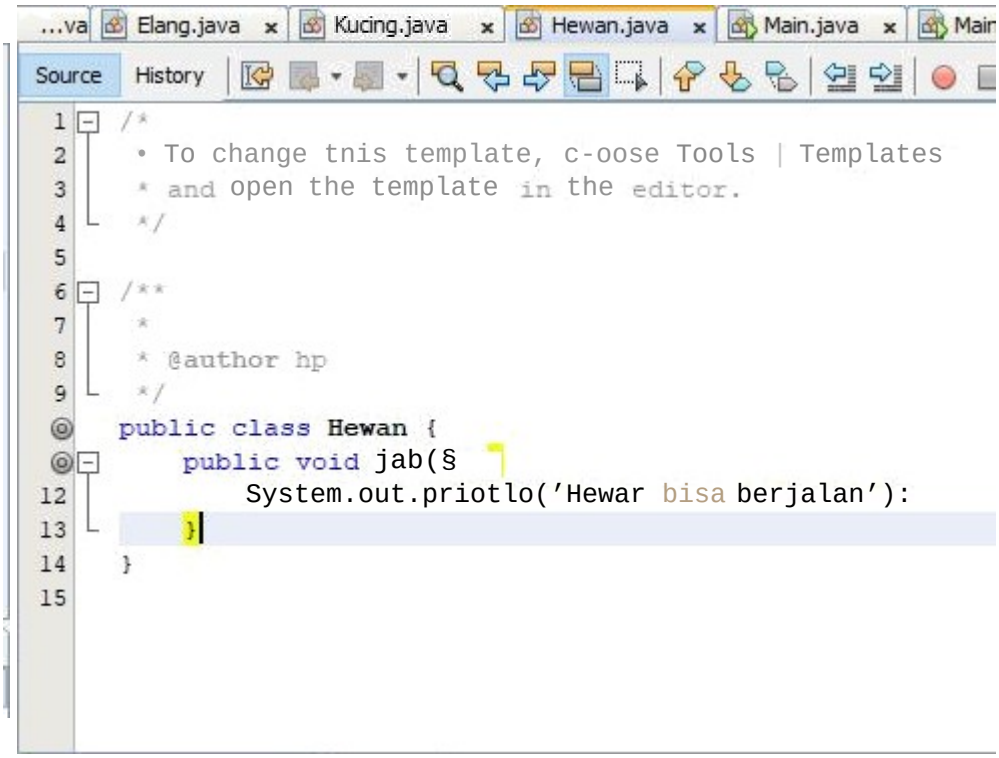
```
Source  History
 2   * To change this template, choose Tools | Templates
 3   * and open the template in the editor.
 4   */
 5
 6  /**
 7   *
 8   * @author hp
 9   */
10  public class Elang extends Hewan{
11      @Override
12      public void jalan(){
13          System.out.println("Elang bisa terbang dengan sayap"+" dan berjalan dengan kaki"
14      }
15  }
16
```

```
Output - Modul8 (run)  Tasks
run:
Hewan bisa berjalan
Kucing bisa berjalan dengan kaki dan berlari
Elang bisa terbang dengan sayap dan berjalan dengan kaki
BUILD SUCCESSFUL (total time: 0 seconds)
```

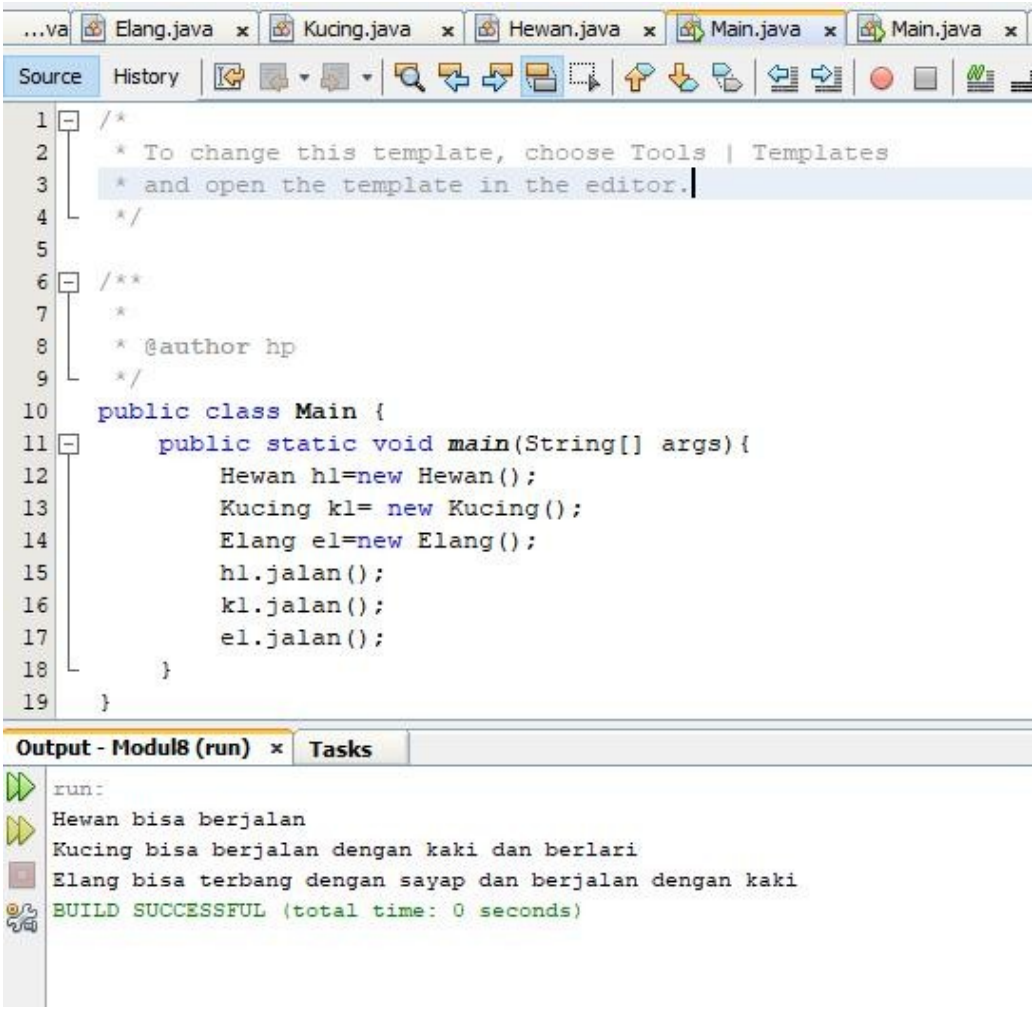


```
...va  Elang.java  Kucing.java  Hewan.java  Main.java  Main.java  CustomerData.java
Source  History
 1  /*
 2   * To change this template, choose Tools | Templates
 3   * and open the template in the editor.
 4   */
 5
 6  /**
 7   *
 8   * @author hp
 9   */
10  public class Kucing extends Hewan {
11      @Override
12      public void jalan(){
13          System.out.println("Kucing bisa berjalan dengan kaki"+" dan berlari");
14      }
15  }
16
```

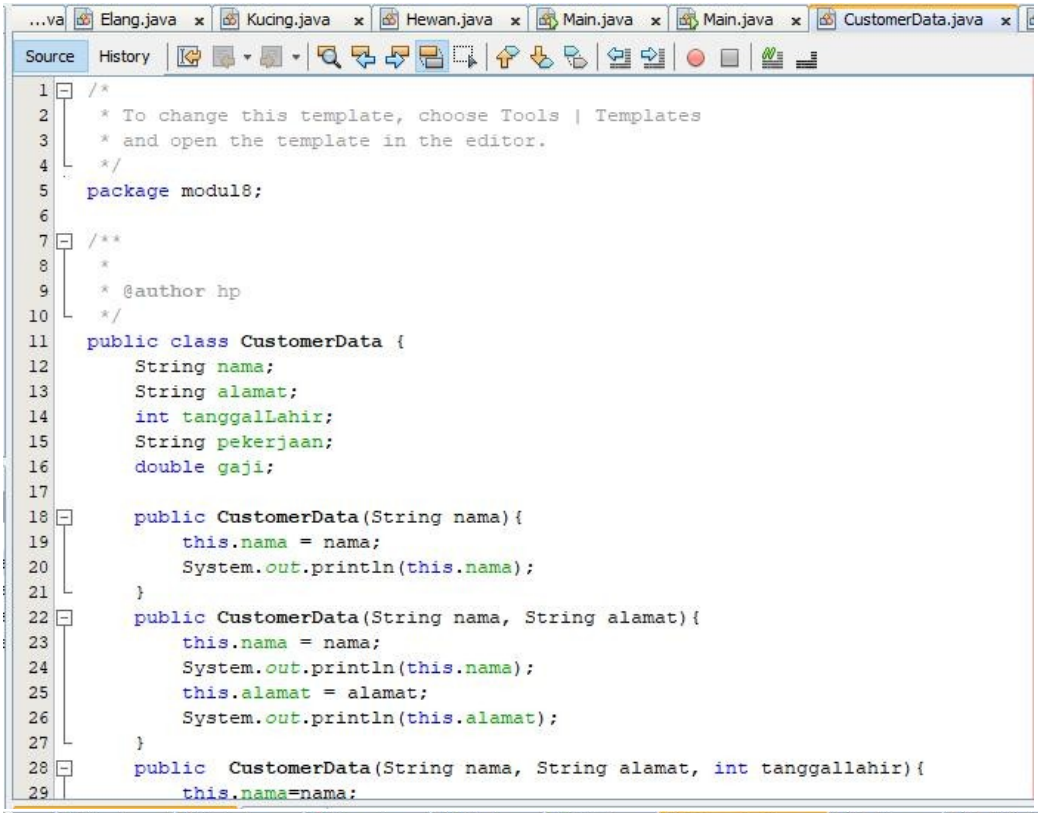
```
Output - Modul8 (run)  Tasks
run:
Hewan bisa berjalan
Kucing bisa berjalan dengan kaki dan berlari
Elang bisa terbang dengan sayap dan berjalan dengan kaki
BUILD SUCCESSFUL (total time: 0 seconds)
```



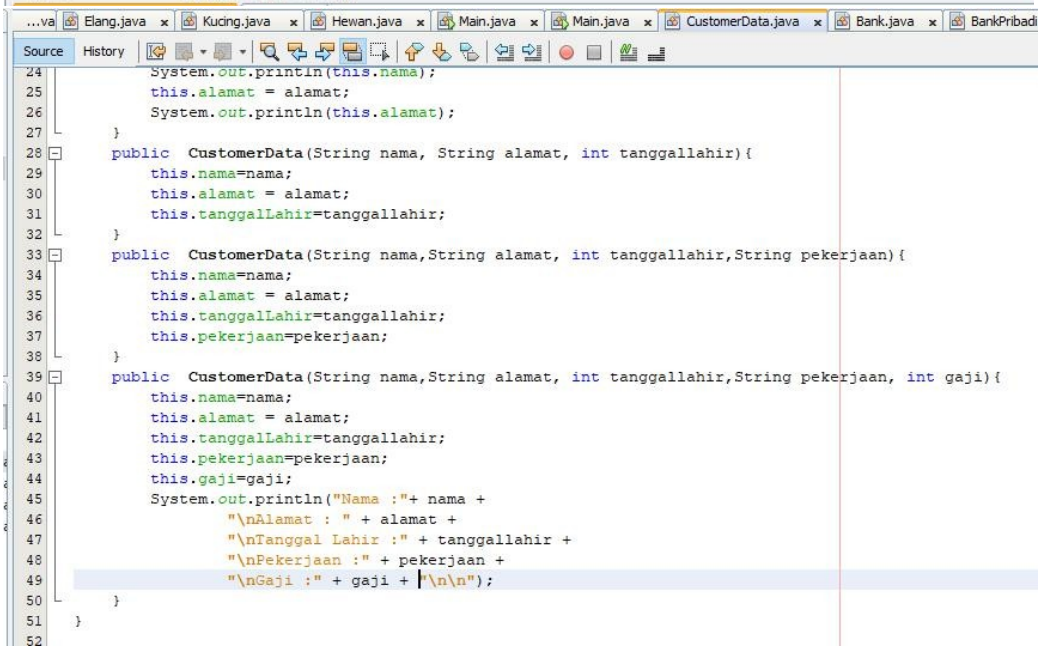

```
Hevan bisa berjalan
Kucing bisa berjalan dengan kaki dan berlari
#   Elang bisa us bang aengan sazap aan bersaian aengan aaai
    BUILD SUCCESSFUL ltoral time. 0 seconds)
```



2. **Buatlah class baru dengan nama CustomerData(), tambahkan variable nama, alamat, tanggal lahir, pekerjaan, dan gaji. Selanjutnya buatlah overloading constructor dari class tersebut.**

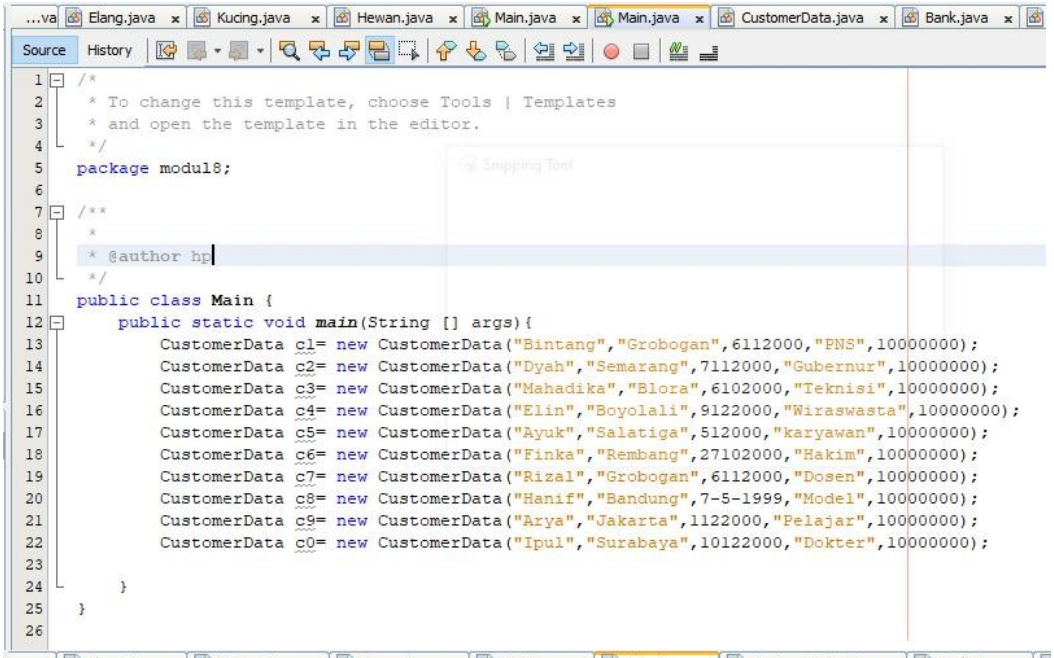


```
/*
 * To change this template, choose Tools | Templates
 * and open the template in the editor.
 */
package modul8;

/**
 *
 * @author hp
 */
public class CustomerData {
    String nama;
    String alamat;
    int tanggalLahir;
    String pekerjaan;
    double gaji;

    public CustomerData(String nama){
        this.nama = nama;
        System.out.println(this.nama);
    }
    public CustomerData(String nama, String alamat){
        this.nama = nama;
        System.out.println(this.nama);
        this.alamat = alamat;
        System.out.println(this.alamat);
    }
    public  CustomerData(String nama, String alamat, int tanggallahir){
        this.nama=nama;
```



```
        System.out.println(this.nama);
        this.alamat = alamat;
        System.out.println(this.alamat);
    }
    public  CustomerData(String nama, String alamat, int tanggallahir){
        this.nama=nama;
        this.alamat = alamat;
        this.tanggalLahir=tanggallahir;
    }
    public  CustomerData(String nama,String alamat, int tanggallahir,String pekerjaan){
        this.nama=nama;
        this.alamat = alamat;
        this.tanggalLahir=tanggallahir;
        this.pekerjaan=pekerjaan;
    }
    public  CustomerData(String nama,String alamat, int tanggallahir,String pekerjaan, int gaji){
        this.nama=nama;
        this.alamat = alamat;
        this.tanggalLahir=tanggallahir;
        this.pekerjaan=pekerjaan;
        this.gaji=gaji;
        System.out.println("Nama :"+ nama +
                "\nAlamat : " + alamat +
                "\nTanggal Lahir :" + tanggallahir +
                "\nPekerjaan :" + pekerjaan +
                "\nGaji :" + gaji + "\n\n");
    }
}
```

3. Buatlah class baru dengan method main() yang disertai 10 object customer dari class CustomerData().

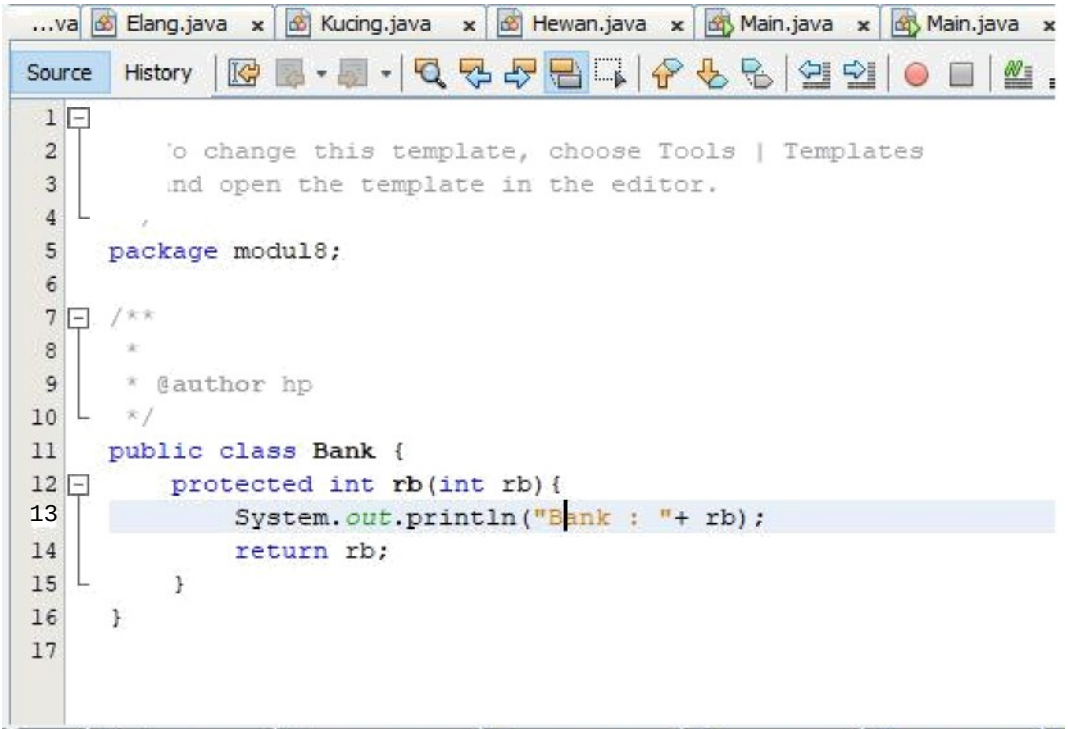


```
/*
 * To change this template, choose Tools | Templates
 * and open the template in the editor.
 */
package modul8;

/**
 *
 * @author hp
 */
public class Main {
    public static void main(String [] args){
        CustomerData c1= new CustomerData("Bintang","Grobogan",6112000,"PNS",10000000);
        CustomerData c2= new CustomerData("Dyah","Semarang",7112000,"Gubernur",10000000);
        CustomerData c3= new CustomerData("Mahadika","Blora",6102000,"Teknisi",10000000);
        CustomerData c4= new CustomerData("Elin","Boyolali",9122000,"Wiraswasta",10000000);
        CustomerData c5= new CustomerData("Ayuk","Salatiga",512000,"karyawan",10000000);
        CustomerData c6= new CustomerData("Finka","Rembang",27102000,"Hakim",10000000);
        CustomerData c7= new CustomerData("Rizal","Grobogan",6112000,"Dosen",10000000);
        CustomerData c8= new CustomerData("Hanif","Bandung",7-5-1999,"Model",10000000);
        CustomerData c9= new CustomerData("Arya","Jakarta",1122000,"Pelajar",10000000);
        CustomerData c0= new CustomerData("Ipul","Surabaya",10122000,"Dokter",10000000);

    }
}
```

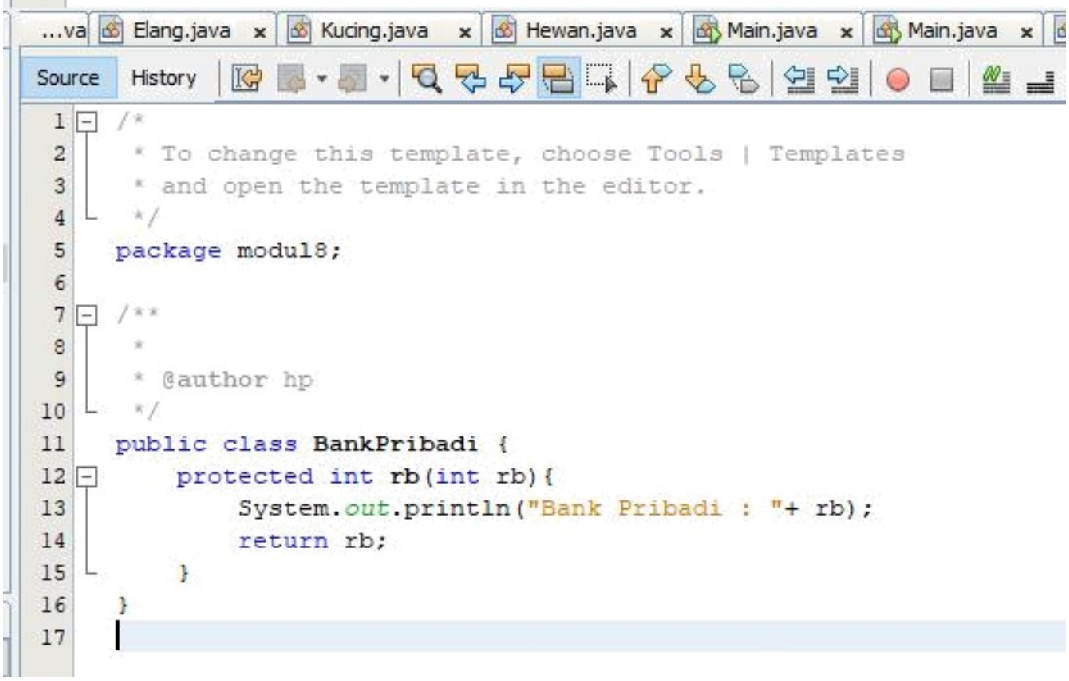
```
public class Main {
    public static void main(String [] args){
        CustomerData c1= new CustomerData("Bintang","Grobogan",6112000,"PNS",10000000);
        CustomerData c2= new CustomerData("Dyah","Semarang",7112000,"Gubernur",10000000);
```

```
run:
Nama :Bintang
Alamat : Grobogan
Tanggal Lahir :6112000
Pekerjaan :PNS
Gaji :10000000


Nama :Dyah
Alamat : Semarang
Tanggal Lahir :7112000
Pekerjaan :Gubernur
Gaji :10000000


Nama :Mahadika
Alamat : Blora
Tanggal Lahir :6102000
Pekerjaan :Teknisi
Gaji :10000000


Nama :Elin
Alamat : Boyolali
Tanggal Lahir :9122000
Pekerjaan :Wiraswasta
Gaji :10000000
```

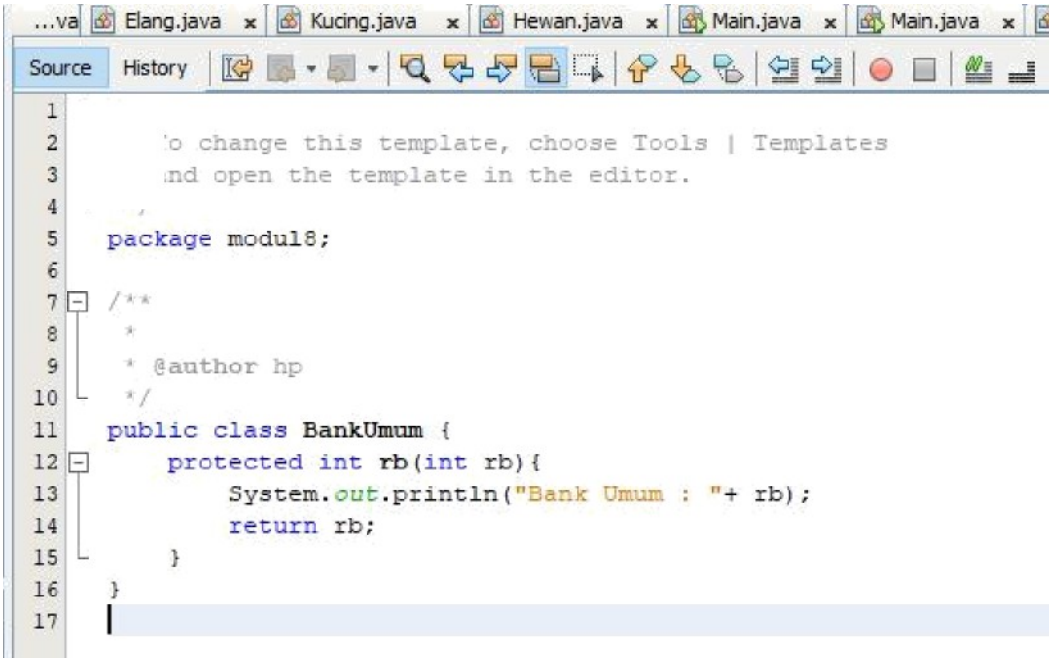
4. Buatlah class berdasarkan diagram UML berikut ini! Terapkan teknik polimorphism dan tampilkan hasil output program.

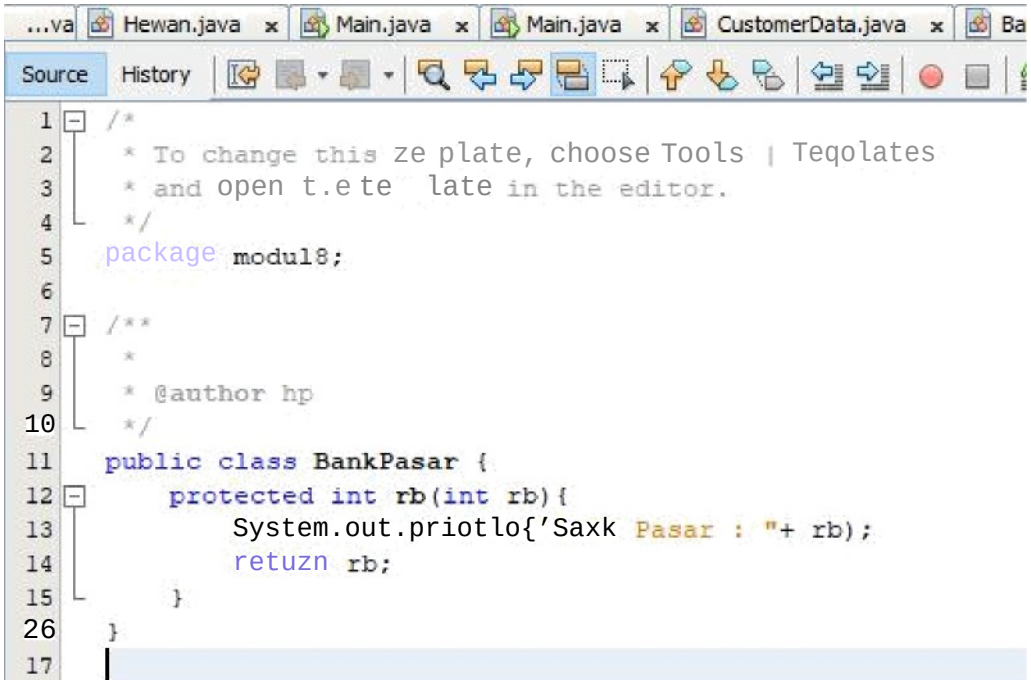


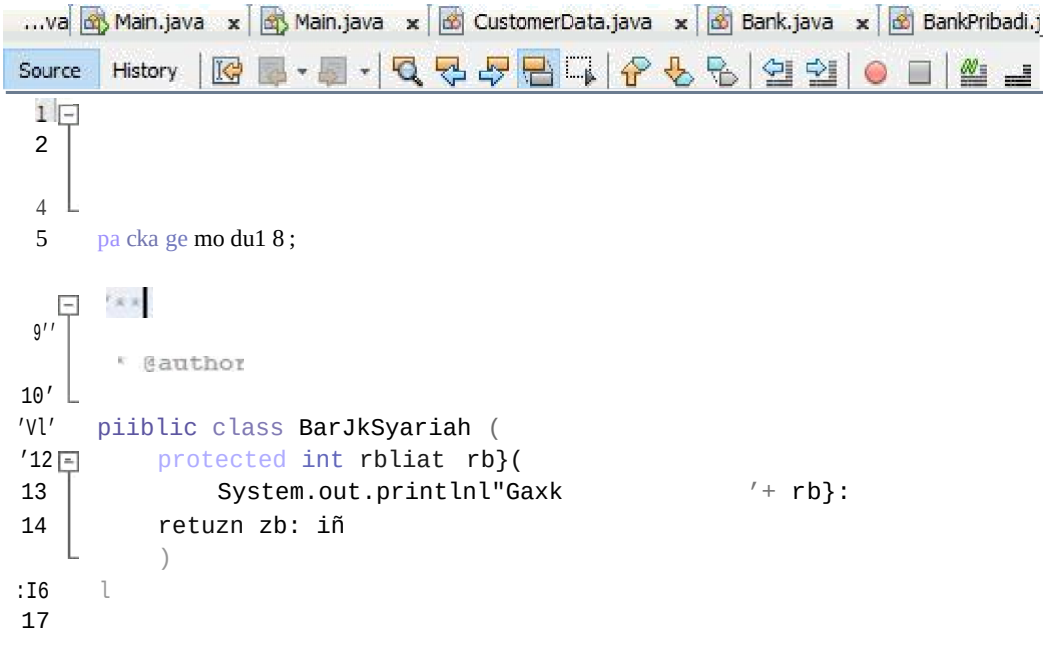
```
...va | Elang.java | Kucing.java | Hewan.java | Main.java | Main.java
Source  History
 1  /*
 2       o change this template, choose Tools | Templates
 3       nd open the template in the editor.
 4     */
 5  package modul8;
 6
 7  /**
 8   *
 9   * @author hp
10   */
11  public class Bank {
12      protected int rb(int rb){
13          System.out.println("Bank : "+ rb);
14          return rb;
15      }
16  }
17
```



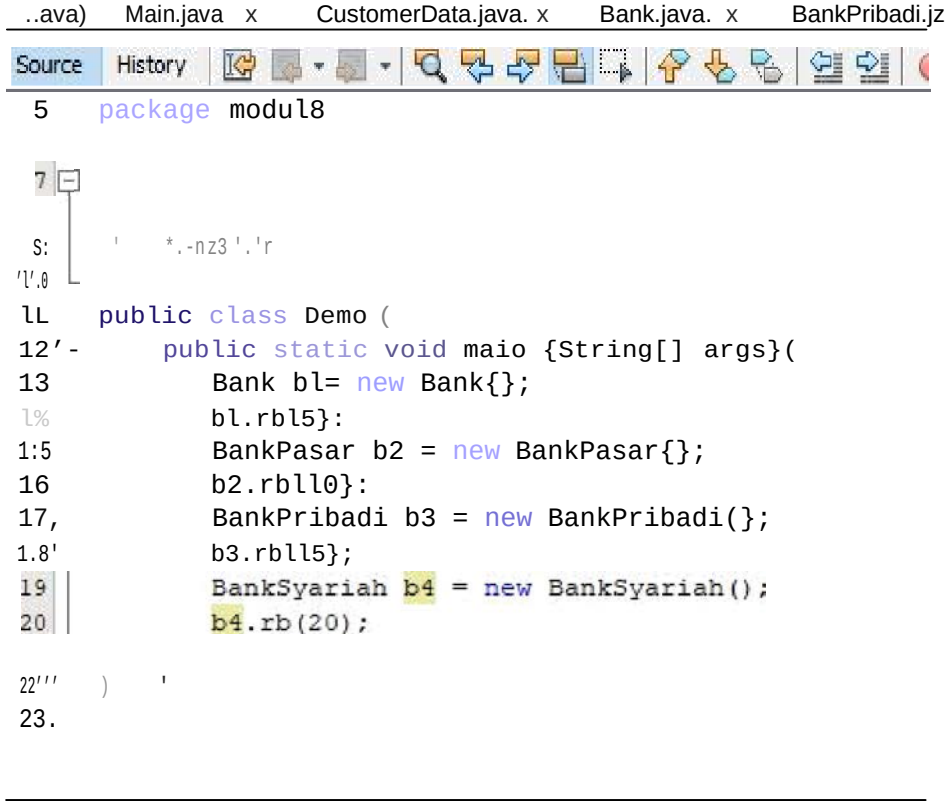
```
...va | Elang.java | Kucing.java | Hewan.java | Main.java | Main.java
Source  History
 1  /*
 2   * To change this template, choose Tools | Templates
 3   * and open the template in the editor.
 4   */
 5  package modul8;
 6
 7  /**
 8   *
 9   * @author hp
10   */
11  public class BankPribadi {
12      protected int rb(int rb){
13          System.out.println("Bank Pribadi : "+ rb);
14          return rb;
15      }
16  }
17
```


...va
Elang.java
Kucing.java
Hewan.java
Main.java
Main.java
Source
History
o change this template, choose Tools | Templates
nd open the template in the editor.
package modul8;
/**
*
* @author hp
*/
public class BankUmum {
protected int rb(int rb){
System.out.println("Bank Umum : "+ rb);
return rb;
}
}


...va
Hewan.java
Main.java
Main.java
CustomerData.java
Source
History
/*
* To change this ze plate, choose Tools | Teqolates
* and open t.e te late in the editor.
*/
package modul8;
/**
*
* @author hp
*/
public class BankPasar {
protected int rb(int rb){
System.out.priotlo{'Saxk Pasar : "+ rb);
retuzn rb;
}
}

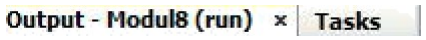


```
...va  Main.java x | Main.java x | CustomerData.java x | Bank.java x | BankPribadi.j
Source  History
1
2
4
5   pa cka ge mo du1 8 ;

9''     '**
         * @author
10'
'Vl'    piiblic class BarJkSyariah (
'12         protected int rbliat  rb}(
13              System.out.printlnl"Gaxk              '+ rb}:
14          retuzn zb: iñ
            )
:I6     l
17
```



```
..ava)   Main.java  x    CustomerData.java. x    Bank.java.  x    BankPribadi.jz
Source  History
5   package modul8

7
S:      '    *.-nz3 '.'r
'l'.0
lL      public class Demo (
12'-        public static void maio {String[] args}(
13              Bank bl= new Bank{};
l%              bl.rbl5}:
1:5             BankPasar b2 = new BankPasar{};
16              b2.rbll0}:
17,             BankPribadi b3 = new BankPribadi(};
1.8'            b3.rbll5};
19              BankSyariah b4 = new BankSyariah();
20              b4.rb(20);

22'''   )    '
23.
```

```
Output - Modul8 (run)  x | Tasks

   Bank : S
_  Bank Pasar : 10
   Bank Pribadi : lS
   Bank Syariah . 20
   9UILJ SUCCESSFUL itctal time. ? seconds)
```




```
   Bank . 5
_ Bank Pasar . 10
   Bank Pribaai . io
   Bank Syariah . 20
   BUILT SUCCESSFUL itctal time. ? seconds)
```