Nama : Amartya Bintang Wijat Ranti
NIM : L200180193
Kelas : E (Prak. PBO)

Tugas Modul 8

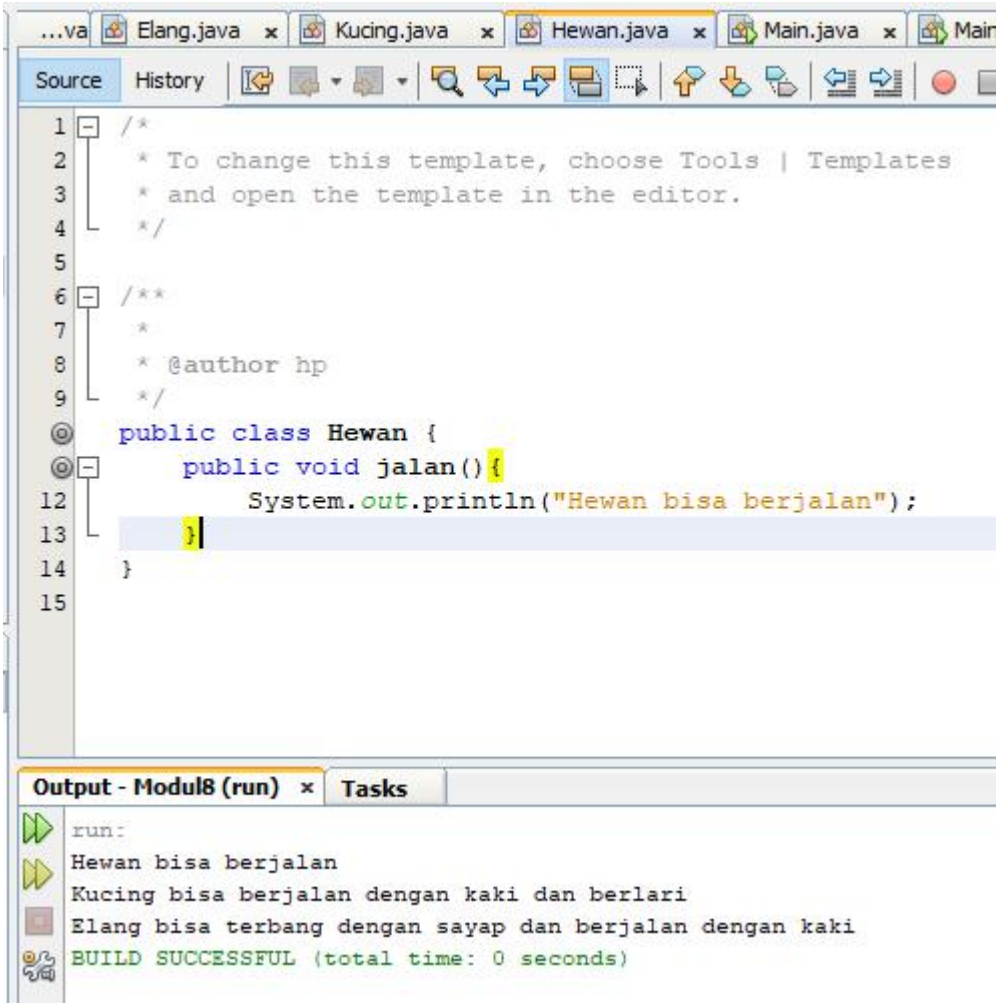
1. **Lihat kembali Program. 4 mengenai Overriding, buatlah class Elang yang memiliki method jalan() namun implementasinya berbeda dari kedua class sebelumnya!**

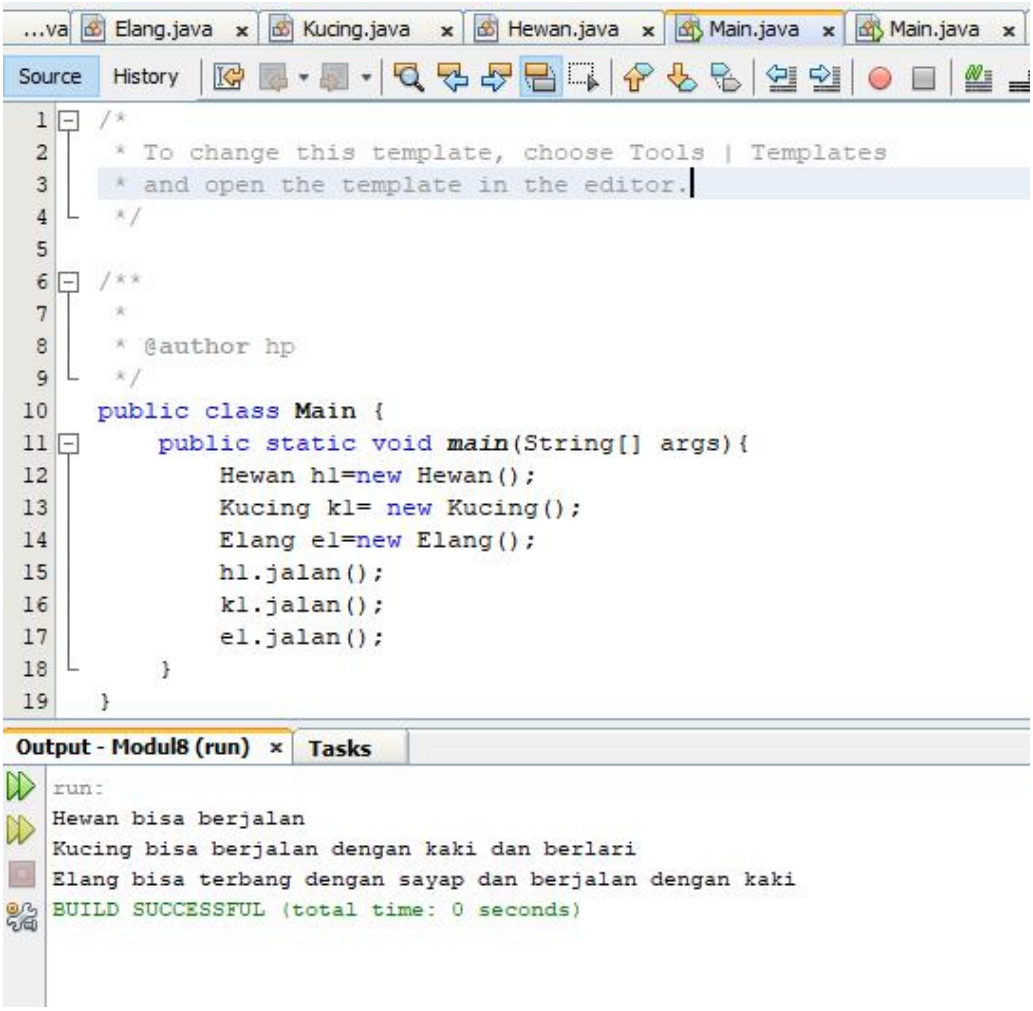
```
Source  History
 1  /*
 2   * To change this template, choose Tools | Templates
 3   * and open the template in the editor.
 4   */
 5
 6  /**
 7   *
 8   * @author hp
 9   */
10  public class Elang extends Hewan{
11      @Override
12      public void jalan(){
13          System.out.println("Elang 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)
```

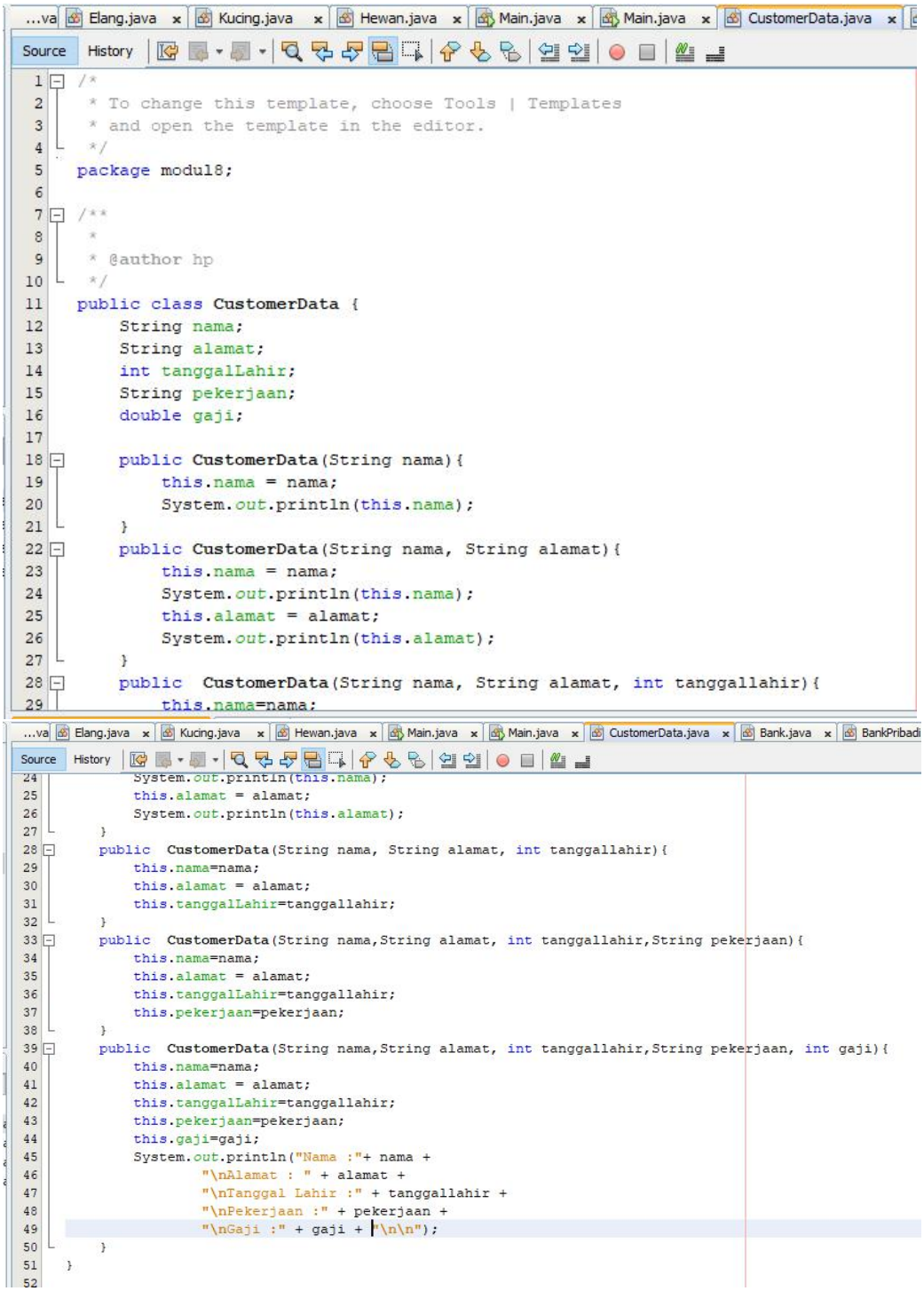
```
...va  Elang.java  Kucing.java  Hewan.java  Main.java  Main.java  CustomerData.java
Source  History
 1  /*
 2   * To change this template, choose Tools | Templates
 3   * and open the template in the editor.
 4   */
 5
 6  /**
 7   *
 8   * @author hp
 9   */
10  public class Kucing extends Hewan {
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)
```


...va
Elang.java
Kucing.java
Hewan.java
Main.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 */
public class Hewan {
public void jalan(){
12 System.out.println("Hewan bisa berjalan");
13 }
14 }
15
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)

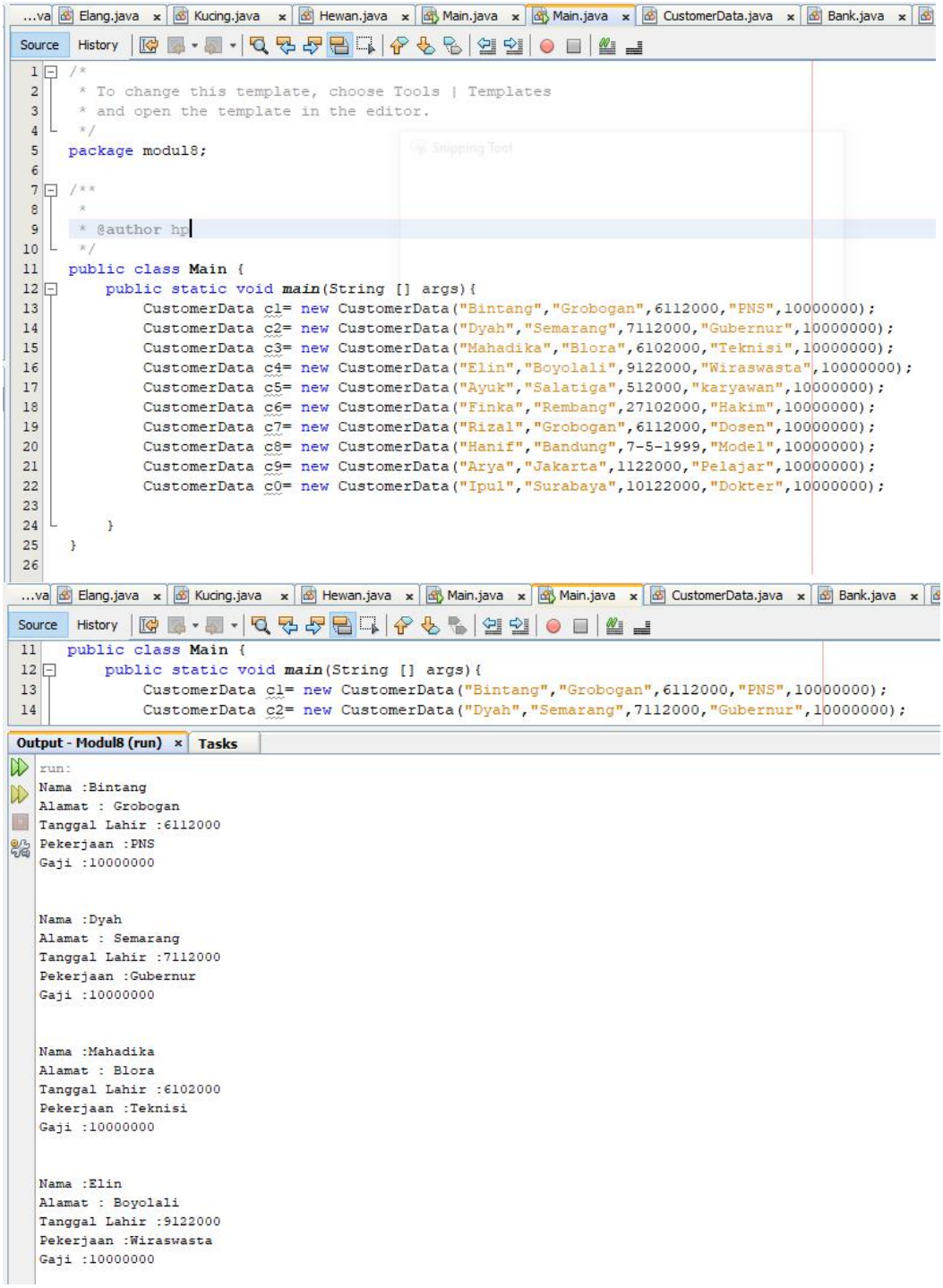


2. **Buatlah class baru dengan nama CustomerData(), tambahkan variable nama, alamat, tanggal lahir, pekerjaan, dan gaji. Selanjutnya buatlah overloading constructor dari class tersebut.**



```
...va | Elang.java | Kucing.java | Hewan.java | Main.java | Main.java | CustomerData.java
Source  History
/*
 * 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;
        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().

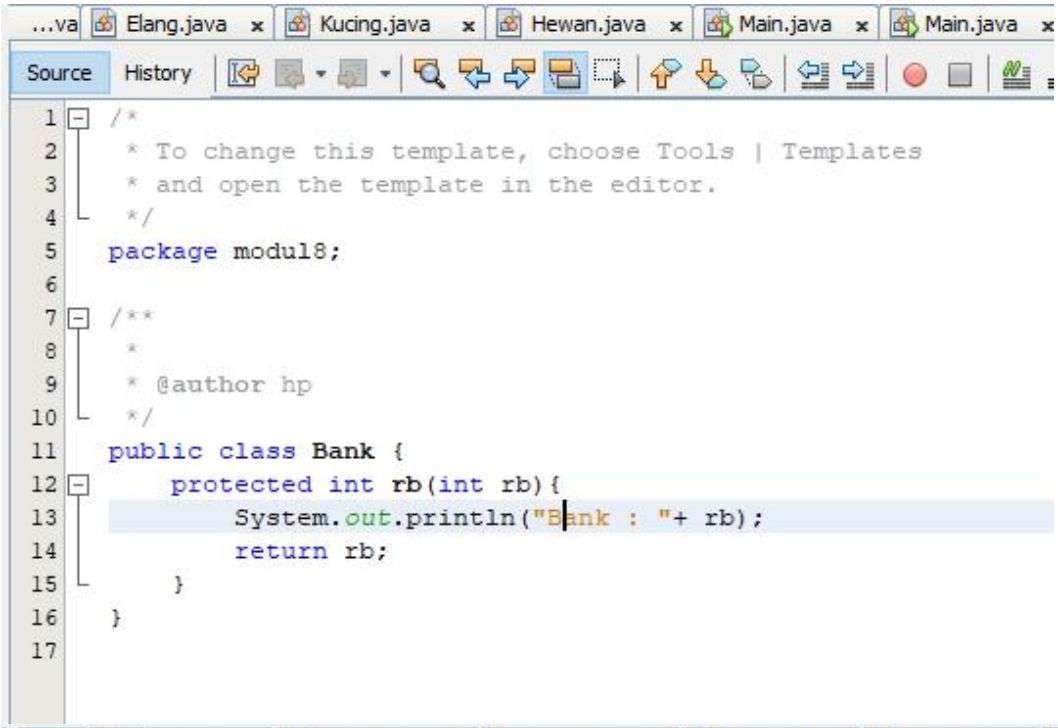


```
...va Elang.java x Kucing.java x Hewan.java x Main.java x Main.java x CustomerData.java x Bank.java x
Source History
 1  /*
 2   * To change this template, choose Tools | Templates
 3   * and open the template in the editor.
 4   */
 5  package modul8;
 6
 7  /**
 8   *
 9   * @author hp
10   */
11  public class Main {
12      public static void main(String [] args){
13          CustomerData c1= new CustomerData("Bintang","Grobogan",6112000,"PNS",10000000);
14          CustomerData c2= new CustomerData("Dyah","Semarang",7112000,"Gubernur",10000000);
15          CustomerData c3= new CustomerData("Mahadika","Blora",6102000,"Teknisi",10000000);
16          CustomerData c4= new CustomerData("Elin","Boyolali",9122000,"Wiraswasta",10000000);
17          CustomerData c5= new CustomerData("Ayuk","Salatiga",512000,"karyawan",10000000);
18          CustomerData c6= new CustomerData("Finka","Rembang",27102000,"Hakim",10000000);
19          CustomerData c7= new CustomerData("Rizal","Grobogan",6112000,"Dosen",10000000);
20          CustomerData c8= new CustomerData("Hanif","Bandung",7-5-1999,"Model",10000000);
21          CustomerData c9= new CustomerData("Arya","Jakarta",1122000,"Pelajar",10000000);
22          CustomerData c0= new CustomerData("Ipul","Surabaya",10122000,"Dokter",10000000);
23
24      }
25  }
26
```

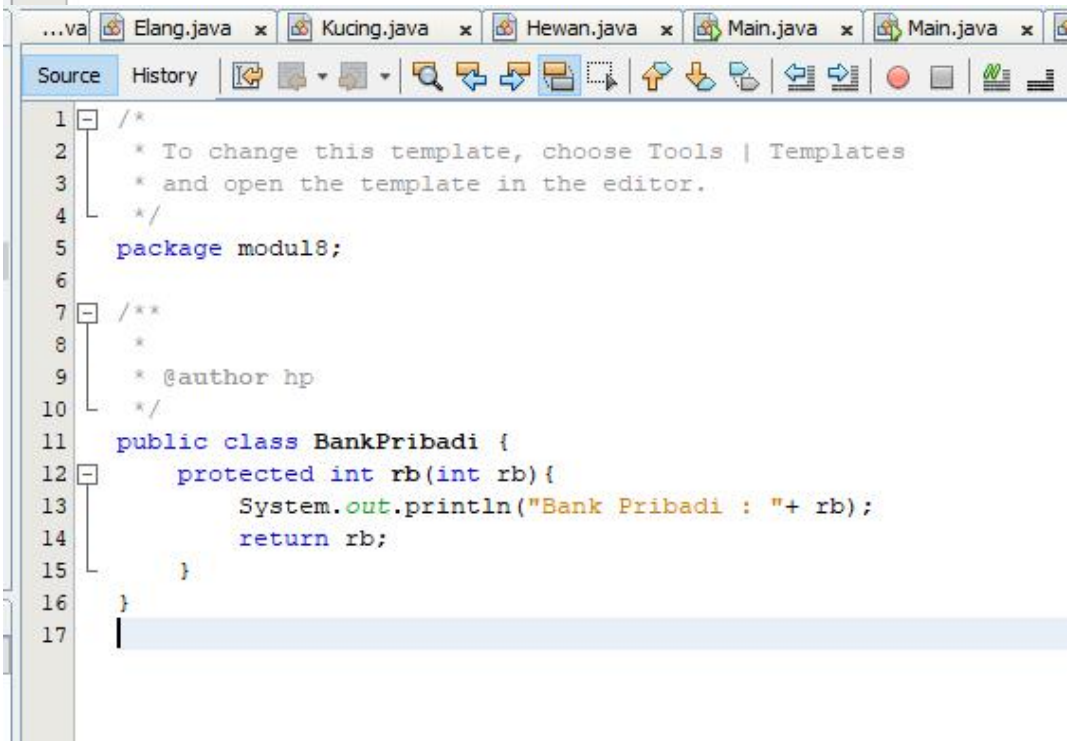
```
...va Elang.java x Kucing.java x Hewan.java x Main.java x Main.java x CustomerData.java x Bank.java x
Source History
11  public class Main {
12      public static void main(String [] args){
13          CustomerData c1= new CustomerData("Bintang","Grobogan",6112000,"PNS",10000000);
14          CustomerData c2= new CustomerData("Dyah","Semarang",7112000,"Gubernur",10000000);
```

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

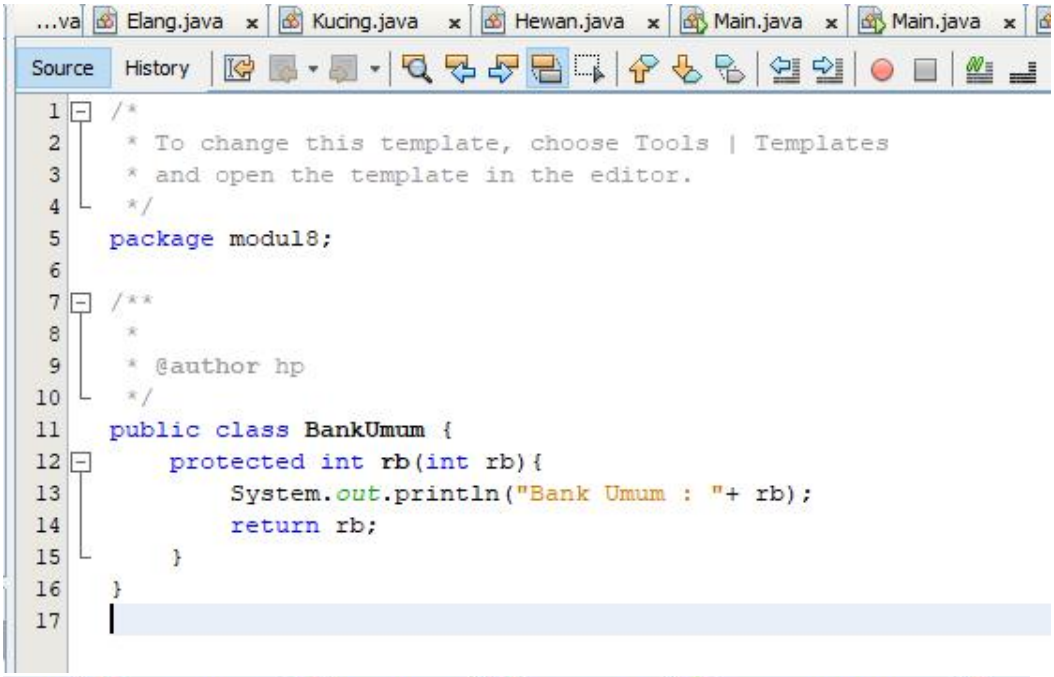
4. Buatlah class berdasarkan diagram UML berikut ini! Terapkan teknik polimorphism dan tampilkan hasil output program.



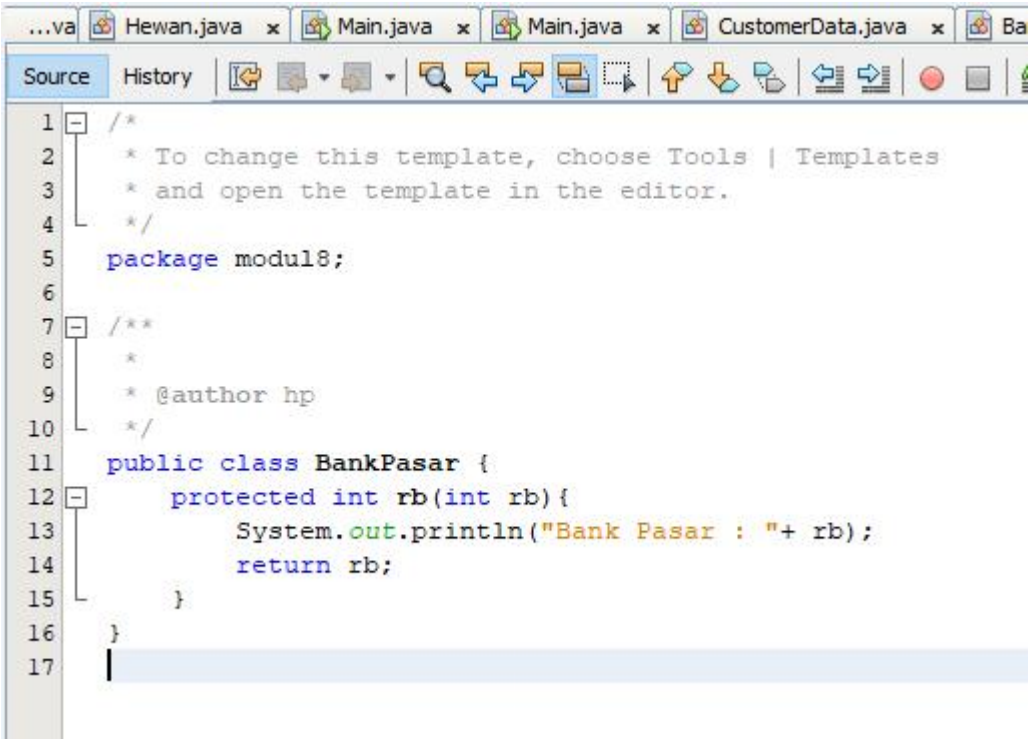
```
...va | Elang.java | Kucing.java | Hewan.java | Main.java | Main.java
Source  History
 1  /*
 2   * To change this template, choose Tools | Templates
 3   * and open the template in the editor.
 4   */
 5  package modul8;
 6
 7  /**
 8   *
 9   * @author hp
10   */
11  public class Bank {
12    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



```
...va | Hewan.java | Main.java | Main.java | CustomerData.java | Ba
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 BankPasar {
12     protected int rb(int rb){
13         System.out.println("Bank Pasar : "+ rb);
14         return rb;
15     }
16 }
17
```

...va | Main.java | Main.java | CustomerData.java | Bank.java | BankPribadi.j

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 BankSyariah {
12     protected int rb(int rb){
13         System.out.println("Bank Syariah : "+ rb);
14         return rb;
15     }
16 }
17
```

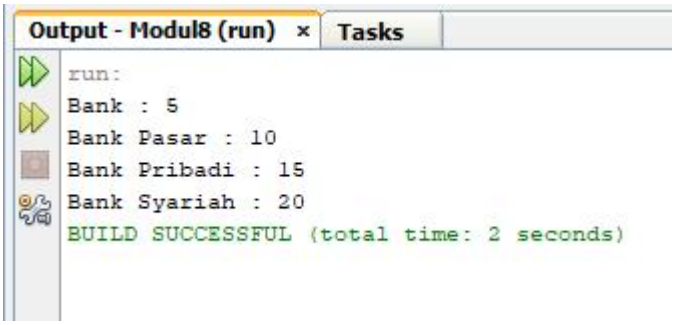
...ava | Main.java | CustomerData.java | Bank.java | BankPribadi.ja

Source | History

```
5  package modul8;
6
7  /**
8   *
9   * @author hp
10  */
11 public class Demo {
12     public static void main (String[] args){
13         Bank b1= new Bank();
14         b1.rb(5);
15         BankPasar b2 = new BankPasar();
16         b2.rb(10);
17         BankPribadi b3 = new BankPribadi();
18         b3.rb(15);
19         BankSyariah b4 = new BankSyariah();
20         b4.rb(20);
21     }
22 }
23
```

Output - Modul8 (run) | Tasks

```
run:
Bank : 5
Bank Pasar : 10
Bank Pribadi : 15
Bank Syariah : 20
BUILD SUCCESSFUL (total time: 2 seconds)
```


Output - Modul8 (run)
Tasks
run:
Bank : 5
Bank Pasar : 10
Bank Pribadi : 15
Bank Syariah : 20
BUILD SUCCESSFUL (total time: 2 seconds)