Mata Kuliah: PBO-TI-S1

Pertemuan: 10

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# Package pbo

```
Start Page X Bangun2DDemo.java [-/A] X
  Source History | Market | Mark
                   * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt t
           * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this
   3
   4
               package pbo;
   5
   6
   7 🖃 /**
   8
                * @author Nila
   9
 10
              class Bangun2DDemo {
 11
 13 📮
                          public static void main(String[] args) {
                                 BujurSangkar bs = new BujurSangkar(5);
 14
                                         bs.cetakKeliling();
 15
 16
                                         bs.cetakLuas();
 17
 18
                  }
Output - Run (Bangun2DDemo) ×
Compiling 20 source files with javac [debug target 21] to target\classes
               location of system modules is not set in conjunction with -source 21
not setting the location of system modules may lead to class files that cannot run on JDK
-
                           --release 21 is recommended instead of -source 21 -target 21 because it sets the locati
Q<sup>r</sup>
        --- exec:3.1.0:exec (default-cli) @ Bangun2D ---
Sisi Bujur Sangkar : 5
              Keliling Bujur Sangkar: 20
           Luas Bujur Sangkar : 25
               BUILD SUCCESS
               Total time: 4.140 s
               Finished at: 2024-07-01T19:35:59+07:00
```

# Kode Program:

```
package pbo;
public abstract class Bangun2D
     public abstract void cetakLuas();
     public abstract void cetakKeliling();
package pbo;
public class BujurSangkar extends Bangun2D
     private int sisi;
     public BujurSangkar(int sisi)
           this.sisi = sisi;
           System.out.println("Sisi Bujur Sangkar : "+sisi);
     public void cetakLuas()
           int luas = sisi * sisi;
           System.out.println("Luas Bujur Sangkar : "+luas);
     public void cetakKeliling()
           int keliling = 4 * sisi;
           System.out.println("Keliling Bujur Sangkar: "+keliling);
package pbo;
class Bangun2DDemo
     public static void main(String[]args)
           BujurSangkar bs=new BujurSangkar(5);
           bs.cetakKeliling();
           bs.cetakLuas();
```

#### Latihan 2

```
Start Page X Bangun2DDemo.java [-/A] X TeleponDemo.java [-/A] X
package pbo;
 5
 7 - /**
 8
      * @author Nila
 9
10
      */
11
     class TeleponDemo {
12
13 🖃
          public static void main(String[] args) {
14
             Handphone hp = new Handphone();
15
             hp.setNomor(8183434);
             hp.telpon();
16
17
             hp.setPixel(1024);
             hp.ambilGambar();
18
              hp.setGelombang("FM 101.2");
19
20
21
      }
22
>
Output - Run (TeleponDemo) ×
     Changes detected - recompiling the module! :source
Compiling 20 source files with javac [debug target 21] to target\classes
location of system modules is not set in conjunction with -source 21
-
      not setting the location of system modules may lead to class files that cannot run on JDK 21
        --release 21 is recommended instead of -source 21 -target 21 because it sets the location
O,
--- exec:3.1.0:exec (default-cli) @ Bangun2D ---
     Sedang Menelepon
     Gambar terambil...
     Total time: 2.328 s
     Finished at: 2024-07-01T19:38:00+07:00
```

### Code Program:

```
package pbo;
public interface Kamera
     public void setPixel(float pixel);
     public void ambilGambar();
package pbo;
public interface Radio
     public void setGelombang(String gel);
package pbo;
abstract class Telepon
     protected long nomer;
     public void telpon()
           System.out.println("Sedang Menelepon");
class Handphone extends Telepon implements Kamera, Radio
     private String gelombang;
     private float pixel;
     public void ambilGambar()
           System.out.println("Gambar terambil...");
     public void setGelombang(String gel)
           this.gelombang=gel;
     public void setPixel(float pixel)
           this.pixel=pixel;
     public void setNomor(long no)
           this.nomer=no;
package pbo;
class TeleponDemo
     public static void main(String[]args)
           Handphone hp=new Handphone();
           hp.setNomor(8183434);
           hp.telpon();
           hp.setPixel(1024);
           hp.ambilGambar();
           hp.setGelombang("FM 101.2");
```

#### Latihan 2

```
Start Page X Bangun2DDemo.java [-/A] X Bangun2DDemo.java [-/A] X Start Page X Start
                        History | 🔀 📮 - 👼 - | 🔼 😓 😓 🚍 | 🖓 😓 | 🚰 💇 | 🗶 🔲 | 💯 🚅
      5
                       package pbo;
      6
     7 🖵 /**
      8
                         * @author Nila
      9
   10
   11
                   public class Zoo3Abstract {
   12 -
                               static void test(Binatang a) {
   13
                                                 a.makan();
   14
                                                a.tidur();
   15
                                                a.mati();
   16
                                 }
   17 -
                                   public static void main (String[] a) {
   18
                                                Harimau macan=new Harimau();
   19
                                             Bebek donald=new Bebek();
   20
                                                test (macan);
   21
                                                test(donald);
   22
                                     }
 Output - Run (Zoo3Abstract) ×
             - Nothing to compile - all classes are up to date
           --- exec:3.1.0:exec (default-cli) @ Bangun2D ---
 -
                 harimau makan.....
                 harimau tidur.....
                 bebek makan.....
                 bebek tidur.....
                   BUILD SUCCESS
                   Total time: 1.474 s
                    Finished at: 2024-07-01T19:38:52+07:00
Code Program:
Class Zoo3Abstract.java
                     package pbo;
                      /**
                          * @author Nila
                     public class Zoo3Abstract {
                                     static void test(Binatang a){
```

```
a.makan();
              a.tidur();
              a.mati();
          }
         public static void main (String[] a){
              Harimau macan=new Harimau();
              Bebek donald=new Bebek();
              test(macan);
              test(donald);
          }
     }
Class Binatang.java
     package pbo;
     /**
      *
      * @author Nila
     abstract class Binatang{
         abstract void makan();
         abstract void tidur();
         void mati(){
              System.out.println("mati.....");
          }
     }
Class Bebek.java
     package pbo;
     /**
      * @author Nila
      */
     class Bebek extends Binatang{
         void makan(){
              System.out.println("bebek makan....");
         void tidur(){
             System.out.println("bebek tidur.....");
          }
     }
Class Harimau.java
     package pbo;
     /**
      * @author Nila
```

```
*/
class Harimau extends Binatang{
    void makan(){
        System.out.println("harimau makan....");
    }
    void tidur(){
        System.out.println("harimau tidur....");
    }
}
```

#### Latihan 3

```
--- exec:3.1.0:exec (default-cli) @ Bangun2D ---
_____
Harga : 5000000
Bahan : Jati Tua
Jumlah Kaki : 5
Kaca : Oval
Diskon : 500000.0
Bayar : 4500000.0
_____
Harga
         : 5000000
Bahan
         : Jati
Jumlah Kaki : 6
Jumlah Kaki : 4
Bayar
         : 5000000
_____
======ALMARI PAKAIAN======
Harga : 2500000
Bahan : Stainless
Jumlah Pintu: 4
Roda : false
Diskon : 375000.0
Bayar : 2125000.0
_____
======ALMARI MAKAN======
Harga : 1000000
     : Stainless
Bahan
Jumlah Roda : 8
Roda : false
Diskon : 500000.0
Bayar : 500000.0
```

### Code Program:

```
public class MebelDemo {
   public static void main(String[] args) {
      System.out.println("======");
      MejaTamu mt=new MejaTamu();
      mt.harga=5000000;
      mt.bahan="Jati Tua";
      mt.jmlKaki=5;
      mt.bentukKaca="Oval";
      mt.discount( mt.harga);
      mt.cetak();
      System.out.println("======="");
      System.out.println("========MEJA MAKAN========");
      MejaMakan mm = new MejaMakan();
      mm.harga = 5000000;
      mm.bahan = "Jati";
      mm.jmlKaki = 4;
      mm.jmlKursi = 6;
      mm.cetak();
      System.out.println("=======");
      System.out.println("======ALMARI PAKAIAN======");
      AlmariPakaian ap=new AlmariPakaian();
      ap.harga=2500000;
      ap.bahan="Stainless";
      ap.roda=false;
      ap.jmlPintu=4;
      ap.discount(ap.harga);
      ap.cetak();
      System.out.println("=======");
      System.out.println("======ALMARI MAKAN=======");
      AlmariMakan am=new AlmariMakan();
      am.harga=1000000;
      am.bahan="Stainless";
```

# Class Meja.java

```
package pbo;

/**
    * @author Nila
    */
public class Meja extends Mebel{
      public int jmlKaki;
}
```

```
Class MejaMakan.java
     package pbo;
     /**
      * @author Nila
      */
     public class MejaMakan extends Meja {
         public int jmlKursi;
         void cetak() {
              System.out.println("Harga\t\t: " + harga);
              System.out.println("Bahan\t\t: " + bahan);
              System.out.println("Jumlah Kaki\t: " + jmlKursi);
              System.out.println("Jumlah Kaki\t: " + jmlKaki);
              System.out.println("Bayar\t\t: " + (harga));
          }
Class MejaTamu.java
     package pbo;
     /**
      * @author Nila
     public class MejaTamu extends Meja implements Discountable{
         public String bentukKaca;
         float diskon;
         public void discount(int harga){
              diskon=0.1f*harga;
         void cetak(){
                                              : "+harga);
              System.out.println("Harga
              System.out.println("Bahan : "+bahan);
              System.out.println("Jumlah Kaki : "+jmlKaki);
              System.out.println("Kaca : "+bentukKaca);
              System.out.println("Diskon : "+diskon);
System.out.println("Bayar : "+(harga-diskon));
          }
     }
Class Almari.java
     package pbo;
     /**
      * @author Nila
     public class Almari extends Mebel{
         boolean roda;
     }
```

```
Class AlmariMakan.java
      package pbo;
      /**
       * @author Nila
      public class AlmariMakan extends Almari implements
      Discountable{
           int jmlRoda;
           float diskon;
           public void discount(int harga){
               diskon=0.20f*harga;
           }
           void cetak(){
               System.out.println("Harga : "+harga);
System.out.println("Bahan : "+bahan);
               System.out.println("Jumlah Roda : "+jmlRoda);
               System.out.println("Roda : "+roda);
               System.out.println("Diskon : "+diskon);
System.out.println("Bayar : "+(harga-diskon));
           }
}
Class AlmariPakaian.java
      package pbo;
      /**
       * @author Nila
      public class AlmariPakaian extends Almari implements
      Discountable{
           int jmlPintu;
           float diskon;
           public void discount(int harga){
               diskon=0.15f*harga;
           void cetak(){
               System.out.println("Harga : "+harga);
System.out.println("Bahan : "+bahan);
               System.out.println("Jumlah Pintu : "+jmlPintu);
               System.out.println("Roda : "+roda);
               System.out.println("Diskon : "+diskon);
System.out.println("Bayar : "+(harga-diskon));
           }
      }
```

```
Class MebelDemo.java
    package pbo;
     * @author Nila
    public class MebelDemo {
        public static void main(String[] args) {
    System.out.println("=======");
            System.out.println("=======MEJA
    TAMU=======");
            MejaTamu mt=new MejaTamu();
            mt.harga=5000000;
            mt.bahan="Jati Tua";
            mt.jmlKaki=5;
            mt.bentukKaca="Oval";
            mt.discount( mt.harga);
            mt.cetak();
    System.out.println("========");
            System.out.println("=======MEJA
    MAKAN========");
            MejaMakan mm = new MejaMakan();
            mm.harga = 5000000;
            mm.bahan = "Jati";
            mm.jmlKaki = 4;
            mm.jmlKursi = 6;
            mm.cetak();
            System.out.println("========");
            System.out.println("======ALMARI PAKAIAN======");
            AlmariPakaian ap=new AlmariPakaian();
            ap.harga=2500000;
            ap.bahan="Stainless";
            ap.roda=false;
            ap.jmlPintu=4;
            ap.discount( ap.harga);
            ap.cetak();
            System.out.println("========");
            System.out.println("======ALMARI MAKAN=======");
            AlmariMakan am=new AlmariMakan();
            am.harga=1000000;
            am.bahan="Stainless";
            am.roda=false;
            am.jmlRoda=8;
            am.discount( ap.harga);
            am.cetak();
        }
    }
```