LAPORAN PRAKTIKUM PEMROGRAMAN BERORIENTASI OBYEK MODUL 9 ABSTRACT CLASS



Disusun Oleh:

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Kelas : D

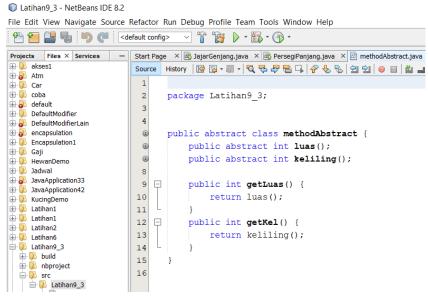
Matkul: Praktikum PBO

PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS KOMUNIKASI DAN INFORMATIKA
UNIVERSITAS MUHAMMADIYAH SURAKARTA
TAHUN 2021/2022

9.3 LATIHAN

Dengan menggunakan class MethodAbstract pada program 5 diatas, buatlah class PersegiPanjang, JajarGenjang, Lingkaran, dan Segitiga! Selanjutnya implementasikan method luas() dan keliling() yang sesuai dengan perhitungan masing – masing.

MethodAbstract



• Persegi Panjang © Latihan9_3 - NetBeans IDE 8.2

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  Source History | 🚱 🔯 + 🗐 + | 🍳 😎 🚭 📮 | 🚱 😓 | 😫 🛂 | 🍎 🔠 | 🕮 🚅
                                                                                            package Latihan9 3;
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                                                                            5
                                                                                           public class PersegiPanjang extends methodAbstract{
                                                                             6
                                                                                                    int panjang = 5;
                                                                             7
                                                                                                       int lebar = 10;
                                                                            8
                                                                            9
                                                                                                        @Override
                                                                            ⓐ □
                                                                                                       public int luas() {
                                                                          11
                                                                                                                   return panjang * lebar;
                                                                          12
  ⊞ D Latihan2
                                                                           13
  ⊞ D Latihan6
  Latihan9_3
       build hbproject
                                                                           © 📮
                                                                                                       public int keliling() {
                                                                          16
                                                                                                                  return 2 * (panjang + lebar);
      src Latihan9_3
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                   JajarGenjang.java
S Lingkaran.java
PersegiPanjang.java
                                                                                                       public void show() {
                                                                          18 📮
                                                                           19
                                                                                                          System.out.println("Luas Persegi Panjang : " + luas() + "\n" +
                       Segitiga.java
methodAbstract.java
                                                                           20
                                                                                                                                                                                "Keliling Persegi Panjang : " + keliling());
                                                                          21
      test
build.xml
manifest.mf
                                                                          22 🗏
                                                                                                        public static void main (String [] args) {
                                                                          23
                                                                                                                   PersegiPanjang a = new PersegiPanjang();
manifest.
Modul 7
Nilai
OrangDemo
Paket1
Pekerjaan
                                                                          24
                                                                                                                    a.show();
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 Debugger Console × Latihan9_3 (run) ×
             Luas Persegi Panjang : 50
95
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• Jajar Genjang

♠ Latihan9_3 - NetBeans IDE 8.2
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coba
                                                                       package Latihan9 3;
                                                            2
default
DefaultModifier
DefaultModifierLain
                                                           3
                                                                       public class JaiarGeniang extends methodAbstract {
                                                            4
                                                                               int sisialas = 5;

    DefaultModifierLair
    Decapsulation
    Encapsulation1
    Gaji
    HewanDemo
    Jadwal
    JavaApplication33
    JavaApplication42
                                                            5
                                                                                int sisimiring = 4;
                                                            6
                                                                                int tinggi = 9;
                                                            7
                                                            9
                                                                                 @Override
                                                           ⓐ 📮
                                                                                public int luas() {
11
                                                                                         return sisialas * tinggi;
🗓 🕟 Latihan1
                                                          12
Latihan2
                                                          13
 Latihan9 3
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                                                                                 @Override
    build
hph nbproject
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                                                                                 public int keliling() {
                                                          16
                                                                                         return 2 * (sisialas + sisimiring);
         Latihan9_3
                                                          17
                Latihan9_3
JajarGenjang.java
JajarGenjang.java
Lingkaran.java
Lingkaran.java
Segitiga.java
Lingkaran.java
methodAbstract.java
                                                          18
                                                          19 🗏
                                                                                 public void show() {
                                                          20
                                                                                       System.out.println("Luas Jajar Genjang : " + luas() + "\n" +
                                                                                                                                         "Keliling Jajaar Genjang : " + keliling());
                                                          21
    test
build.xml
manifest.mf
                                                          22
                                                          23
Modul 7
Nilai
OrangDemo
                                                          24
                                                                                  public static void main(String[] args) {
                                                          25
                                                                                          JajarGenjang b = new JajarGenjang();
Paket1
                                                          26
                                                                                           b.show();
Output
Debugger Console × Latihan9_3 (run) ×
          Luas Jajar Genjang : 45
Keliling Jajaar Genjang : 18
BUILD SUCCESSFUL (total time: 0 seconds)
```

Lingkaran

```
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 Projects | Files × | Services | — | Start Page × | → | Start Page × | → | JajarGenjang.java × | → | PersegiPanjang.java × | → | methodAbstract.java × | → | Lingkaran.java × | → | Segitique
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DefaultModifier
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Encapsulation
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                                                                                                             package Latihan9 3;
                                                                                         3
                                                                                                             public class Lingkaran extends methodAbstract {
                                                                                          5
                                                                                                                      double pi = 3.14;
Encapsulation1
Gaji
HewanDemo
Jadwal
JavaApplication33
JavaApplication42
Latihan1
Latihan1
                                                                                                                          int diameter = 10;
                                                                                                                         int jarijari = 5;
                                                                                          7
8
                                                                                                                          @Override
                                                                                         a □
                                                                                                                          public int luas() {
                                                                                                                                   return (int) (pi * jarijari*jarijari);
                                                                                        11
                                                                                        12
  ⊞ D Latihan2
 Latihan6
                                                                                        14
       build
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Latinan9_3
                                                                                                    早
                                                                                          (1)
                                                                                                                           public int keliling() {
                                                                                        16
                                                                                                                                       return (int) (pi*diameter);
                                                                                        17
                           Latihan9_3
JajarGenjang.java
Lingkaran.java
PersegiPanjang.java
Segitiga.java
methodAbstract.java
                                                                                        18
                                                                                        19 📮
                                                                                                                           public void show() {
                                                                                                                                        System.out.println("Luas Lingkaran : " + luas() + "\n" +
                                                                                        20
                                                                                                                                                                                                                "Keliling Lingkaran : " + keliling());
                                                                                        21
        test
build.xml
manifest.mf
                                                                                        22
                                                                                        23
 Modul 7

Nilai

OrangDemo
                                                                                       24
                                                                                                                           public static void main (String[] args) {
                                                                                        25
                                                                                                                                         Lingkaran c = new Lingkaran();
 Paket1
Pekerjaan
                                                                                                                                          c.show();
                                                                                        27
  Output
 Debugger Console × Latihan9_3 (run) ×
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Segitiga

Latihan9_3 - NetBeans IDE 8.2

Luas Segitiga : 56

0.05 500 Keliling Segitiga: 36
BUILD SUCCESSFUL (total time: 0 seconds)

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help The second secon Projects Files × Services -Start Page × 🔊 JajarGenjang.java × 🚳 PersegiPanjang.java × 🖻 methodAbstract.java × 🚳 Lingkaran.java × 🚳 Segitiga.java akses1 2 package Latihan9 3; default 3 public class Segitiga extends methodAbstract{ ⊕ DefaultModifier int alas = 8; 4 🕀 🔊 DefaultModifierLain encapsulation
Encapsulation1 5 int tinggi = 14; int sisimiring = 14; 6 Gaji
HewanDemo 7 @Override 8 Œ 口 public int luas() { JavaApplication42

KucingDemo return (int) (0.5 * alas * tinggi); 10 🗓 🖟 Latihan1 11 ⊞ D Latihan1 12 ± Latihan2 13 @Override Latihan6 Latihan9_3 1 口 public int keliling() { build
nbproject 15 return alas + sisimiring * 2; 16 src Latihan9_3 17 JajarGenjang.java
Lingkaran.java 阜 public void show() { 18 19 PersegiPanjang.java Segitiga.java "Keliling Segitiga : " + keliling()); 20 methodAbstract.java 21 ⊕ D test build.xml
manifest.mf 22 23 早 public static void main (String[] args) { ⊕ D Modul 7 Segitiga d = new Segitiga(); 24 ⊕ 🐌 Nilai 25 d.show(); 🗓 🐌 OrangDemo Paket1 26 Debugger Console × Latihan9_3 (run) ×

9.4 TUGAS

Buatlah class abstract untuk bangun ruang, dengan ketentuan memiliki method abstract untuk menghitung volume dan luas selimut/luas permukaan. Selanjutnya buatlah class Balok, Kubus, Bola, Kerucut, dan PrismaSegitiga untuk mengimplementasikan method abstract tersebut!

Bangun Ruang

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Tugas 9.4 - NetBeans IDE 8.2
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                          Start Page × 🔊 JajarGenjang.java × 🚳 PersegiPanjang.java × 🖾 methodAbstract.java × 🚳 Lin
                          Source History | 🚱 🖫 - 🔊 - | 🔾 👺 👺 🖫 🖟 🚱 🤡 🖭 🖭 | ● 🔲 😃 🚅
BewanDemo
- 🖔 Jadwal
JavaApplication33
                                 package Tugas9_4;
 JavaApplication42
 KucingDemo
 Latihan1
                                 public abstract class BangunRuang {
 b Latihan1
                            (2)
                                     public abstract int Volume();
 Latihan2
                            (E)
                                      public abstract int LuasPermukaan();
 Latihan6
                            7
 Latihan9_3
 Source Packages
                            8
                              早
                                      public int getVolume() {
   Latihan9 3
                            9
                                         return Volume();
       JajarGenjang.java
                          10
       Lingkaran.java
       PersegiPanjang.java
                          11
       Segitiga.java
                              12
                                      public int getLuasPermukaan() {
       methodAbstract.java
                          13
                                          return LuasPermukaan();
 ii Libraries
                          14
 🖮 🔓 Test Libraries
                          15
- ∰ Modul 7
- ∰ Nilai
                                 }
                          16
 OrangDemo
                          17
- ₽aket1
- ≫ Pekerjaan
```

Balok

```
Tugas 9.4 - NetBeans IDE 8.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
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   Proje... × Files Services — ...ge 🚳 JajarGenjang.java × 🕸 PersegiPanjang.java × 🖾 methodAbstract.java × 🚳 Lingkaran.java × 🚳 Segitiga.java × 🚳 Balok.java × 🔯 BangunRua
     Jadwal

JavaApplication33

JavaApplication42
                                                                                                                                      Source History | 🚱 👨 - 👼 - | 🔾 🔁 🖶 📮 | 🔗 😓 | 🖭 🖭 | ● 📵 | 🕮 🚅
                                                                                                                                                                       package Tugas9_4;
      KucingDemo
Latihan1
                                                                                                                                                                       public class Balok extends BangunRuang{
                                                                                                                                                                                          private int panjang = 5, luas = 5, tinggi = 5;
     Latihan1
Latihan2
Latihan6
Latihan9_3
                                                                                                                                            5
                                                                                                                                                                                             @Override
                                                                                                                                             ② □
                                                                                                                                                                                             public int Volume() {
               Source Packages
                                                                                                                                             7
8
                                                                                                                                                                                                                 return panjang * luas * tinggi;
                                     ■ JajarGenjang.java
■ Lingkaran.java
■ PersegiPanjang.java
■ Segitiga.java
■ methodAbstract.java
                                                                                                                                       10
                                                                                                                                                                                              @Override
By Segruga, we have a segretary and a segretar
                                                                                                                                           ② □
                                                                                                                                                                                              public int LuasPermukaan() {
                                                                                                                                       12
                                                                                                                                                                                                                  return 2 * (panjang * luas + panjang * tinggi + luas * tinggi);
                                                                                                                                       13
                                                                                                                                       14
                                                                                                                                       15 □
                                                                                                                                                                                               public void show() {
                                                                                                                                                                                                                  System.out.println("Volume Balok: " + Volume() + "\n" +
                                                                                                                                       16
                                                                                                                                                                                                                                                                                                                                  "Luas Permukaan Balok: " + LuasPermukaan());
                                                                                                                                       17
                                                                                                                                       18
                                                                                                                                       19
                                                                                                                                       20 ⊟
                                                                                                                                                                                                  public static void main(String[] args) {
                                                                                                                                                                                                                  Balok a = new Balok();
                                                                                                                                       21
                                                                                                                                                                                                                    a.show();
                                                                                                                                       22
                                                                                                                                       23
                                                                                                                                       24
                                                                                                                                       25
                                                                                                                                      26
      Tugas6
Tugas 9.4
```

Kubus

Tugas 9.4 - NetBeans IDE 8.2

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help The second secon Proje... × Files Services -...ge 🚳 JajarGenjang.java 🗴 🚳 PersegiPanjang.java 🗴 🔯 methodAbstract.java 🗴 🚳 Lingkaran.java 🗴 🚳 Segitiga.java 🗴 🚳 Balok.java Source History | 🚱 👨 - 🖟 - | 🔩 😓 - 🖟 🖶 📮 | 🔗 😓 | 💇 💇 | 🧼 🔲 | 🕮 🚅 √ JavaApplication33 √ JavaApplication42 1 KucingDemo 2 package Tugas9 4; Latihan1 public class **Kubus** extends BangunRuang{ 8 Latihan1 4 public int sisi; Latihan2 Latihan6 5 Latihan9 3 @Override — B Source Packages (I) public int Volume() { Latihan9_3 JajarGenjang.java
Lingkaran.java return sisi * sisi * sisi; 8 9 PersegiPanjang, java Segitiga.java
methodAbstract.java 10 11 @Override ☐ ☐ Test Packages (a) public int LuasPermukaan() { ii Libraries return 6 * sisi * sisi; 13 Modul 7 14 Nilai
OrangDemo 15 public void show() { Paket1 16 🚍 Pekeriaan 17 PrivateModifier "Luas Permukaan Kubus: " + LuasPermukaan()); 18 protected
Quiz
RotiDemo 19 public static void main(String[] args) { 20 S Tugas1 21 Kubus b = new Kubus(); Tugas 1 22 b.show(); - S Tugas2 - S Tugas2_1 23 Tugas2_2 24 Tugas2 4 Tugas 3 25 } Tugas 4 26 Tugas4.2

Bola

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JavaApplication33
JavaApplication42
 KucingDemo
                                                                   package Tugas9 4;
                                                       2
Latihan1
                                                        3
                                                                   public class Bola extends BangunRuang{
 Latihan1
                                                                            final double pi = 3.14;
                                                        4
Latihan2
 Latihan6
                                                                            int jarijari = 16;
                                                        5
Latinang 3

☐ ☐ ☐ Source Packages

                                                        7
                                                                            @Override
     ⊟- ⊞ Latihan9_3
              JajarGenjang.java
                                                        ⊕ □
                                                                            public int Volume() {
              Lingkaran.java
                                                        9
                                                                                     return (int) (4/3 * pi * jarijari * jarijari * jarijari);
              PersegiPanjang.java
                                                      10
             Segitiga.java
methodAbstract.java
                                                      11
12
 illibraries
                                                             口
                                                       (1)
                                                                            public int LuasPermukaan() {
 🗓 🔓 Test Libraries
- S Modul 7
- Nilai
                                                      14
                                                                                    return (int) (4 * jarijari * jarijari);
                                                      15
OrangDemo
Paket1

Pekerjaan
                                                      16
                                                      17
                                                             早
                                                                            public void show() {
PrivateModifier
                                                                                    System.out.println("Volume Bola: " + Volume() + "\n" +
                                                      18
protected

Quiz

RotiDemo
Tugas1
                                                      19
                                                                                                                                   "Luas Permukaan Bola: " + LuasPermukaan());
                                                      20
                                                             口
                                                                            public static void main(String[] args) {
                                                     21
Tugas 1

Tugas 2

Tugas 2

Tugas 2_1

Tugas 2_2
                                                     22
                                                                                    Bola c = new Bola();
                                                                                      c.show();
                                                      23
                                                     24
Tugas2_4

Tugas 3

Tugas 4
                                                      25
                                                     26
                                                                   }
Tugas4.2
                                                     27
Tugas5
```

Kerucut

Tugas 9.4 - NetBeans IDE 8.2

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                                                     Source History | 🕝 🔯 - 🔊 - | 🔍 🛼 🗗 🖶 📮 | 🔗 😓 | 😫 🖭 | ● 🔲 | 🕮 🚅
 JavaApplication33
JavaApplication42
 Savaraphicator

KucingDemo

Latihan1

Latihan1
                                                       2
                                                                  package Tugas9 4;
                                                                  public class Kerucut extends BangunRuang{
                                                       3
                                                                          double pi = 3.14;
  🅭 Latihan2
                                                       4
  Latihan6
                                                       5
                                                                          int jarijari = 8;
  Latihan9_3
                                                        6
                                                                          int tinggi = 14;
  Source Packages
                                                                          int s = 22;
      E Latihan9_3
              JajarGenjang.java

Lingkaran.java
                                                       8
                                                       9
                                                                          @Override
              PersegiPanjang.java
Segitiga.java
methodAbstract.java
                                                       (2)
                                                            曱
                                                                           public int Volume() {
                                                      11
                                                                                   return (int) (0.33 * pi * jarijari * jarijari * tinggi);

■ Marchages

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 Libraries
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S Test Libraries
Modul 7
S Nilai
S OrangDemo
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                                                            阜
                                                       1
                                                                           public int LuasPermukaan() {
                                                     16
                                                                                    int LuasAlas = (int) pi * jarijari * jarijari;
 Paket1

    Pekerjaan
    PrivateModifier

                                                                                    int LuasSelimut = (int) pi * jarijari * s;
                                                     17
                                                                                    return LuasAlas + LuasSelimut;
                                                     18
 protected
Quiz
RotiDemo
                                                     19
                                                     20
 Tugas1
Tugas 1
Tugas2
Tugas2_1
                                                     21
                                                            曱
                                                                           public void show() {
                                                                                   System.out.println("Volume Kerucut: " + Volume() + "\n" +
                                                     22
                                                                                                                                "Luas Permukaan Kerucut: " + LuasPermukaan()):
                                                     2.3
 Tugas2 2
                                                     24
 Tugas2_2
Tugas2_4
Tugas 3
Tugas 4
                                                            曱
                                                     25
                                                                           public static void main(String[] args) {
                                                     26
                                                                                    Kerucut d = new Kerucut();
 Tugas4.2
Tugas5
                                                     27
                                                                                    d.show();
 Tugas6
                                                     28
                                                     29
  Source Packages
Tugas9_4
                                                     30
                                                     31
          Balok.java

BangunRuang.java
```

Prisma Segita

Tugas 9.4 - NetBeans IDE 8.2 File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

```
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Proje... × Files Services —
                                                                  Start Page × 🔊 JajarGenjang.java × 🚳 PersegiPanjang.java × 🖾 methodAbstract.java × 🚳 Lingkaran.java × 🚳 Segitiga.java × 🚳 Balok.java × 🔯 BangunRua
Jadwal
JavaApplication33
JavaApplication42
JavaApplication42
JavaApplication42
Jatihan1
Jatihan1
Jatihan6
Jatihan6
                                                                    2
                                                                                      package Tugas9 4;
                                                                                      public class PrismaSegitiga extends BangunRuang{
                                                                      3
                                                                      4
5
                                                                                               int alas = 3:
                                                                                                 int tinggisegitiga = 4;
 Latihan9_3
                                                                                               int tinggiprisma = 7;
                                                                       6

☐ ☐ ☐ Source Packages

       Latihan9_3
                 JajarGenjang.java

Lingkaran.java
                                                                                                 @override
                                                                      1
                                                                                                 public int Volume() {
                PersegiPanjang.java

Segitiga.java
methodAbstract.java
                                                                                                            return (int) ((alas * tinggisegitiga * 0.5) * tinggiprisma);
                                                                     10
                                                                     11
 Test Packages
Libraries
Test Libraries
                                                                     12
                                                                     13
Modul 7

Modul 7

Milai

OrangDemo

Paket1

Pekerjaan

PorvateModifier
                                                                       1
                                                                                                 public int LuasPermukaan() {
                                                                    15
                                                                                                            int luasalas = (int) (0.5) *alas * tinggisegitiga;
                                                                    16
                                                                                                             int kelilingalas = (int) Math.sqrt(Math.pow(alas, 2) + Math.pow(tinggisegitiga, 2));
                                                                    17
                                                                                                            int kelilingsegitiga = (int) alas + tinggisegitiga + kelilingalas;
PrivateMod
Protected
Poulz
Poulz
Poulz
Poulz
Pouls
Pou
                                                                                                             return (2 * luasalas) + (kelilingsegitiga * tinggiprisma);
                                                                    18
                                                                    19
                                                                    20
                                                                                                 public void show() {
                                                                    21
                                                                                                            System.out.println("Volume Prisma Segitiga: " + Volume() + "\n" +
                                                                    22
                                                                                                                                                                      "Luas Permukaan Prisma Segitiga: " + LuasPermukaan());
                                                                    23
                                                                    24
                                                                                                 public static void main(String[] args) {
                                                                    25
                                                                              早
                                                                                                             PrismaSegitiga e = new PrismaSegitiga();
                                                                    26
                                                                                                             e.show();
                                                                    27
                                                                    28
                                                                    29
 Source Packages
                                                                    30
      Tugas9_4
Balok.java
BangunRuang.iava
                                                                    31
```