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MODUL 9

Latihan

Modull9 - Apache NetBeans IDE 11.1

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MethodAbstract.java, JajarGenjang.java, PersegiPanjang.java, Segitiga.java

```
MethodAbstract.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 Modul9;
7
8 /**
9  * 
10 * @author Aeo27
11 */
12 public abstract class MethodAbstract {
13     public abstract int luas();
14     public abstract int keliling();
15 }
16
17 public int getluas () {
18     return luas();
19 }
20 public int getKell(){
21     return keliling();
22 }
```

```
PersegiPanjang.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 Modul9;
7
8 /**
9  * 
10 * @author Aeo27
11 */
12 public class PersegiPanjang extends MethodAbstract {
13     int Lebar=10;
14     int Panjang=6;
15
16     public int luas() {
17         return Panjang*Lebar;
18     }
19     public int keliling() {
20         return 2*(Panjang+Lebar);
21     }
22
23     public static void main(String[] args){
24         PersegiPanjang PP = new PersegiPanjang();
25         System.out.println("Kelling = " + PP.getKell());
26         System.out.println("Luas = " + PP.getluas());
27     }
28
29 }
30
31 }
```

```
Segitiga.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 Modul9;
7
8 /**
9  * 
10 * @author Aeo27
11 */
12 public class Segitiga extends MethodAbstract {
13     int Alas=10;
14     int Tinggi=7;
15     int sisil=6;
16     int sisiz=6;
17     int sisil2=6;
18     int sisiz3=6;
19
20     public int luas() {
21         return (Alas*Tinggi)/2;
22     }
23     public int keliling() {
24         return (sisil+sisiz+sisil2+sisiz3);
25     }
26
27     public static void main(String[] args){
28         Segitiga SG = new Segitiga();
29         System.out.println("Kelling = " + SG.getKell());
30         System.out.println("Luas = " + SG.getluas());
31     }
32 }
```

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JajarGenjang.java, MethodMain.java, Lingkaran.java

```
JajarGenjang.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 Modul9;
7
8 /**
9  * 
10 * @author Aeo27
11 */
12 public class JajarGenjang extends MethodAbstract {
13     int Alas=10;
14     int Miring=8;
15     int Tinggi=7;
16
17     public int luas() {
18         return Alas*Tinggi;
19     }
20     public int keliling() {
21         return 2*(Alas+Miring);
22     }
23
24     public static void main(String[] args){
25         JajarGenjang JG = new JajarGenjang();
26         System.out.println("Kelling = " + JG.getKell());
27         System.out.println("Luas = " + JG.getluas());
28     }
29 }
```

```
MethodMain.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 Modul9;
7
8 /**
9  * 
10 * @author Aeo27
11 */
12 public class MethodMain {
13     public static void main(String[] args){
14         Persegi psg= new Persegi ();
15         System.out.println("Persegi \n"+ "Kelling = " + psg.getKell());
16         System.out.println("Luas = " + psg.getluas() + "\n-----");
17
18         PersegiPanjang PP= new PersegiPanjang ();
19         System.out.println("Persegi Panjang \n"+ "Kelling = " + PP.getKell());
20         System.out.println("Luas = " + PP.getluas() + "\n-----");
21
22         JajarGenjang JG= new JajarGenjang ();
23         System.out.println("Jajar Genjang \n"+ "Kelling = " + JG.getKell());
24         System.out.println("Luas = " + JG.getluas() + "\n-----");
25
26         Lingkaran LK= new Lingkaran ();
27         System.out.println("Lingkaran \n"+ "Kelling = " + LK.getKell());
28         System.out.println("Luas = " + LK.getluas() + "\n-----");
29
30         Segitiga SG= new Segitiga ();
31         System.out.println("Segitiga \n"+ "Kelling = " + SG.getKell());
32         System.out.println("Luas = " + SG.getluas() + "\n-----");
33     }
34 }
```

```
Lingkaran.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 Modul9;
7
8 /**
9  * 
10 * @author Aeo27
11 */
12 public class Lingkaran extends MethodAbstract {
13     double Pi=3.14;
14     int D=6;
15     int R=D/2;
16
17     public int luas() {
18         return (int) Pi*(R*R);
19     }
20     public int keliling() {
21         return (int) Pi*D;
22     }
23
24     public static void main(String[] args){
25         Lingkaran LK = new Lingkaran();
26         System.out.println("Kelling = " + LK.getKell());
27         System.out.println("Luas = " + LK.getluas());
28     }
29 }
```

Modull9 - Apache NetBeans IDE 11.1

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MethodMain.java, Output - Modul9 (run)

```
MethodMain.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 Modul9;
7
8 /**
9  * 
10 * @author Aeo27
11 */
12 public class MethodMain {
13     public static void main(String[] args){
14         Persegi psg= new Persegi ();
15         System.out.println("Persegi \n"+ "Kelling = " + psg.getKell());
16         System.out.println("Luas = " + psg.getluas() + "\n-----");
17
18         PersegiPanjang PP= new PersegiPanjang ();
19         System.out.println("Persegi Panjang \n"+ "Kelling = " + PP.getKell());
20         System.out.println("Luas = " + PP.getluas() + "\n-----");
21
22         JajarGenjang JG= new JajarGenjang ();
23         System.out.println("Jajar Genjang \n"+ "Kelling = " + JG.getKell());
24         System.out.println("Luas = " + JG.getluas() + "\n-----");
25
26         Lingkaran LK= new Lingkaran ();
27         System.out.println("Lingkaran \n"+ "Kelling = " + LK.getKell());
28         System.out.println("Luas = " + LK.getluas() + "\n-----");
29
30         Segitiga SG= new Segitiga ();
31         System.out.println("Segitiga \n"+ "Kelling = " + SG.getKell());
32         System.out.println("Luas = " + SG.getluas() + "\n-----");
33     }
34 }
```

```
Output - Modul9 (run):
=====
Persegi
Kelling = 20
Luas = 25
=====
Persegi Panjang
Kelling = 32
Luas = 60
=====
Jajar Genjang
Kelling = 32
Luas = 70
=====
Lingkaran
Kelling = 18
Luas = 27
=====
Segitiga
Kelling = 10
Luas = 35
=====
BUILD SUCCESSFUL (total time: 0 seconds)
```

Tugas

Modull9 - Apache NetBeans IDE 11.1

Tugas.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
6 package Tugas;
7
8 /**
9  * @author Aezo27
10 */
11
12 public abstract class Tugas {
13     public abstract double volume();
14     public abstract double luas();
15 }
16
17 public double getVol(){
18     return volume();
19 }
20
21 public double getLuas(){
22     return luas();
23 }
```

Balok.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
6 package Tugas;
7
8 /**
9  * @author Aezo27
10 */
11
12 public class Balok extends Tugas {
13     int p = 10;
14     int l = 5;
15     int t = 7;
16
17     @Override
18     public double volume() {
19         return p*l*t;
20     }
21
22     @Override
23     public double luas() {
24         return 2*(p*l)+(p*t)+(l*t);
25     }
26
27     public static void main(String[] args) {
28         Balok Bal = new Balok();
29         System.out.println("Volume = " + Bal.getVol());
30         System.out.println("Luas = " + Bal.getLuas());
31     }
32 }
```

The screenshot shows the Apache NetBeans IDE interface with two code editors open. The left editor contains `Kubus.java` and the right editor contains `Krucut.java`. Both files are part of a project named "Modull9 - Apache NetBeans IDE 11.1". The code in `Kubus.java` defines a class `Kubus` that extends `Tugas`. It has a constructor taking an integer `s`, and methods `volume()` and `luas()` both returning `s*s`. It also has a static `main()` method printing volume and luas for a cube with side 8. The code in `Krucut.java` defines a class `Krucut` that extends `Tugas`. It has a constructor taking integers `r` and `t`, and methods `volume()` and `luas()` both returning $\pi r^2 t / 3$. It also has a static `main()` method printing volume and luas for a frustum with radius 9, height 12, and $\pi = 3.14$.

```
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 Aeo27
10 */
11
12 public class Kubus extends Tugas {
13     int s = 8;
14     @Override
15     public double volume() {
16         return s*s;
17     }
18     @Override
19     public double luas() {
20         return 6*(s*s);
21     }
22
23     public static void main(String[]args){
24         Kubus Kub = new Kubus();
25         System.out.println("Volume = " + Kub.getVol());
26         System.out.println("Luas = " + Kub.getLuas());
27     }
28 }
29
30
31
32
33 */
34
35 /**
36 * To change this license header, choose License Headers in Project Properties.
37 * To change this template file, choose Tools | Templates
38 * and open the template in the editor.
39 */
40
41 package Tugas;
42
43 /**
44 * @author Aeo27
45 */
46
47 public class Krucut extends Tugas {
48     int r = 9;
49     int t = 12;
50     double phi = 3.14;
51
52     @Override
53     public double volume() {
54         return (phi*(r*r)*t)/3;
55     }
56     @Override
57     public double luas() {
58         return phi*r*(r+s);
59     }
60
61     public static void main(String[]args){
62         Krucut Kru = new Krucut();
63         System.out.println("Volume = " + Kru.getVol());
64         System.out.println("Luas = " + Kru.getLuas());
65     }
66 }
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```

Modull9 - Apache NetBeans IDE 11.1

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

Search (Ctrl+F)

PrismaSegitiga.java x

Source History

```
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
6 package Tugas;
7
8 /**
9 */
10 @author Aezo27
11 */
12 public class PrismaSegitiga extends Tugas {
13     int a = 5;
14     int ts = 6;
15     int tp = 10;
16
17     @Override
18     public double volume() {
19         return ((a*ts)/2)*tp;
20     }
21     @Override
22     public double luas() {
23         return (2*((a*ts)/2)*(3*tp*ts));
24     }
25
26     public static void main(String[]args){
27         PrismaSegitiga Pris = new PrismaSegitiga();
28         System.out.println("Volume = " + Pris.getVol());
29         System.out.println("Luas = " + Pris.getLuas());
30     }
31 }
32 
```

DemoTugas.java x

Source History

```
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
6 package Tugas;
7
8 /**
9 */
10 @author Aezo27
11 */
12 public class DemoTugas {
13     public static void main(String[]args){
14         Balok Bal = new Balok();
15         System.out.println("Balok\n"+ "Volume = " + Bal.getVol());
16         System.out.println("Luas = " + Bal.getLuas() + "\n-----");
17
18         Kubus Kub = new Kubus();
19         System.out.println("Kubus\n"+ "Volume = " + Kub.getVol());
20         System.out.println("Luas = " + Kub.getLuas() + "\n-----");
21
22         Krucut Kru = new Krucut();
23         System.out.println("Krucut\n"+ "Volume = " + Kru.getVol());
24         System.out.println("Luas = " + Kru.getLuas() + "\n-----");
25
26         PrismaSegitiga Pris = new PrismaSegitiga();
27         System.out.println("Prisma Segitiga\n"+ "Volume = " + Pris.getVol());
28         System.out.println("Luas = " + Pris.getLuas() + "\n-----");
29     }
30 }
31 
```

Output:

The screenshot shows the Apache NetBeans IDE 11.1 interface. The main window title is "Modull9 - Apache NetBeans IDE 11.1". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, and Help. The toolbar contains various icons for file operations like Open, Save, and Print. The top status bar shows the memory usage as "410.1533.0MB" and the search bar has "Search (Ctrl+F)".

The left sidebar features the Projects, Services, and Files tabs. The Projects tab is selected, showing a tree view of Java files: PrismaSegitiga.java, DemoTugas.java, and a package named "Output - Modull9 (run)".

The central workspace displays the code for `PrismaSegitiga.java`:

```
run:
Balok
Volume = 350.0
Luas = 310.0
-----
Kubus
Volume = 512.0
Luas = 384.0
-----
Krucut
Volume = 1017.36
Luas = 452.16
-----
Prisma Segitiga
Volume = 150.0
Luas = 210.0
-----
BUILD SUCCESSFUL (total time: 0 seconds)
```

The bottom status bar shows the current file as "8.4 INS", the date and time as "29/11/2019 21:05", and the system language as "ENG".