

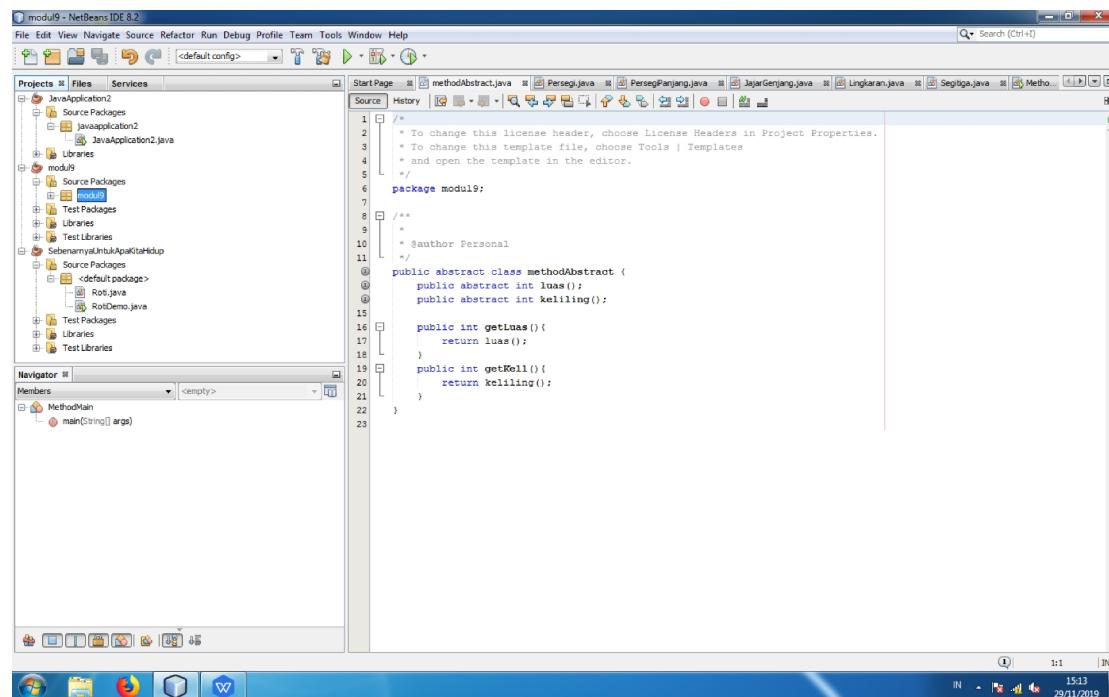
Nama : Alif Al Amin

NIM : L200180082

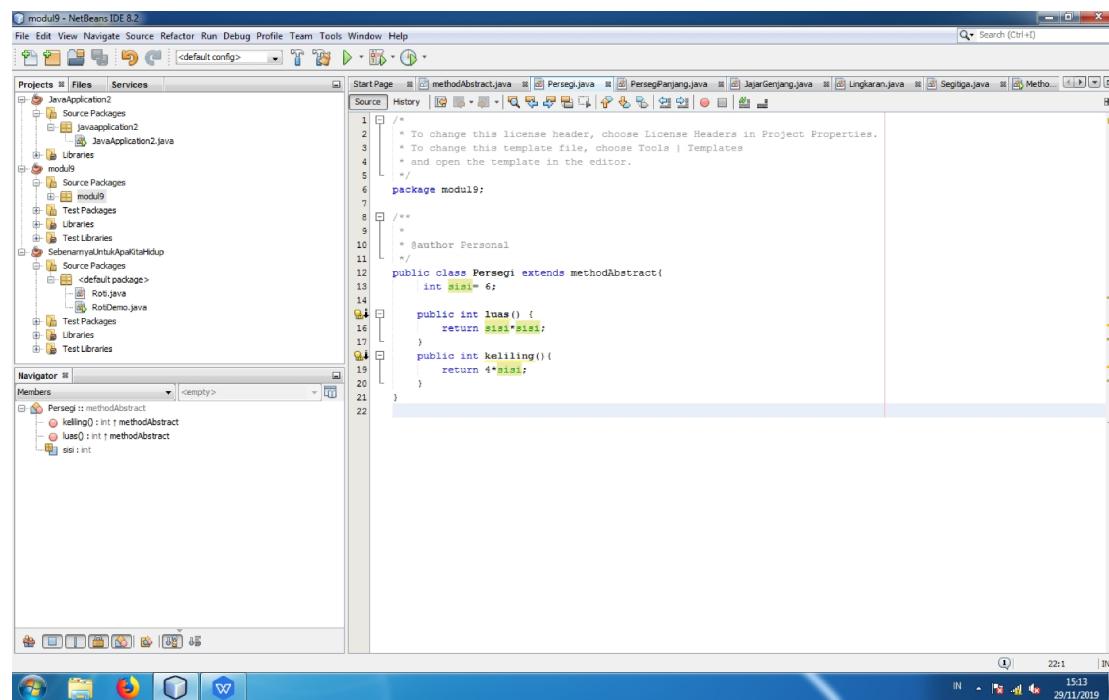
Kelas : B

Laporan Modul ke 9

9.3 Latihan



```
modul9 - NetBeans IDE 8.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Source History Start Page Persegi.java PersegPanjang.java JajarGenjng.java Lingkaran.java Segtga.java Meth...
Projects JavaApplication2 modul9 SebenarnyaUltukApakitaHidup
Source Packages Test Packages Libraries Test Libraries
modul9
Source Packages Test Packages Libraries Test Libraries
SebenarnyaUltukApakitaHidup
Source Packages Test Packages Libraries Test Libraries
<empty>
MethodMain main(String[] args)
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  * @author Personal
10 */
11 public abstract class methodAbstract {
12     public abstract int luas();
13     public abstract int keliling();
14 }
15 public int getLuas(){
16     return luas();
17 }
18 public int getKeliling(){
19     return keliling();
20 }
21 }
22 }
```



```
modul9 - NetBeans IDE 8.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Source History Start Page Persegi.java PersegPanjang.java JajarGenjng.java Lingkaran.java Segtga.java Meth...
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modul9
Source Packages Test Packages Libraries Test Libraries
SebenarnyaUltukApakitaHidup
Source Packages Test Packages Libraries Test Libraries
<empty>
MethodMain main(String[] args)
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  * @author Personal
10 */
11 public class Persegi extends methodAbstract{
12     int sisi= 6;
13     public int luas() {
14         return sisi*sisi;
15     }
16     public int keliling(){
17         return 4*sisi;
18     }
19 }
20 }
21 }
```

modul9 - NetBeans IDE 8.2

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

Projects Files Services

JavaApplication2

modul9

SebenarnyaluktukApaItuHidup

Start Page History <default config> Search (Ctrl+F)

Source PersegiPanjang.java JajarGenjang.java Lingkaran.java Segitiga.java Method.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 Personal  
11 */  
12 public class PersegiPanjang extends methodAbstract{  
13     int panjang = 12;  
14     int lebar = 6;  
15  
16     public int luas(){  
17         return panjang*lebar;  
18     }  
19     public int keliling(){  
20         return 2*(panjang+lebar);  
21     }  
22 }  
23
```

Navigator Members

PersegiPanjang :: methodAbstract

- luas() int
- keliling() int
- lebar : int
- panggang : int

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modul9 - NetBeans IDE 8.2

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

Projects Files Services

JavaApplication2

modul9

SebenarnyaluktukApaItuHidup

Start Page History <default config> Search (Ctrl+F)

Source Persegi.java PersegiPanjang.java JajarGenjang.java Lingkaran.java Segitiga.java Method.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 Personal  
11 */  
12 public class JajarGenjang extends methodAbstract{  
13     int alas = 4;  
14     int tinggi = 5;  
15     int samping = 3;  
16  
17     public int luas(){  
18         return alas*tinggi;  
19     }  
20     public int keliling(){  
21         return (2 * alas) + (2 * samping);  
22     }  
23 }  
24
```

Navigator Members

JajarGenjang :: methodAbstract

- luas() int
- keliling() int
- alas : int
- samping : int
- tinggi : int

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modul9 - NetBeans IDE 8.2

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Projects Files Services

JavaApplication2

Source Packages

javaapplication2

JavaApplication2.java

modul9

Source Packages

modul9

Test Packages

Libraries

Test Libraries

SebenarnyaUntukApaItaHidup

Source Packages

<default package>

Rot.java

RotDemo.java

Test Packages

Libraries

Test Libraries

Navigator

Members

Lingkaran :: methodAbstract

keliling(): int

luas(): int

phi: int

r: int

Source History

Start Page

methodAbstract.java

Persegi.java

PersegPanjang.java

JajarGenjang.java

Lingkaran.java

Segitiga.java

Metho

Search (Ctrl+F)

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 Personal
11 */
12 public class Lingkaran extends methodAbstract{
13 int r =14;
14 int phi = 22/7;
15
16 public int luas(){
17 return (phi*r*r);
18 }
19 public int keliling(){
20 return 2*phi*r;
21 }
22 }
23
24

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modul9 - NetBeans IDE 8.2

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Projects Files Services

JavaApplication2

Source Packages

javaapplication2

JavaApplication2.java

modul9

Source Packages

modul9

Test Packages

Libraries

Test Libraries

SebenarnyaUntukApaItaHidup

Source Packages

<default package>

Rot.java

RotDemo.java

Test Packages

Libraries

Test Libraries

Navigator

Members

Segitiga :: methodAbstract

keliling(): int

luas(): int

a: int

sisi1: int

sisi2: int

sisi3: int

t: int

Source History

Start Page

methodAbstract.java

Persegi.java

PersegPanjang.java

JajarGenjang.java

Lingkaran.java

Segitiga.java

Metho

Search (Ctrl+F)

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 Personal
11 */
12 public class Segitiga extends methodAbstract{
13 int a = 10;
14 int t = 5;
15 int sisi1 = 10;
16 int sisi2 = 20;
17 int sisi3 = 20;
18
19 public int luas(){
20 return (a*t)/2;
21 }
22 public int keliling(){
23 return (sisi1+sisi2+sisi3);
24 }
25 }
26
27

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modul9 - NetBeans IDE 8.2

```

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 Personal
11 */
12 public class MethodMain {
13     public static void main(String[] args) {
14         Persegi pg = new Persegi();
15         System.out.println("Keililing persegi : " + pg.getKell());
16         System.out.println("Luas persegi : " + pg.getLuas() + "\n");
17
18         PersegiPanjang pp = new PersegiPanjang();
19         System.out.println("Keililing Persegi Panjang : " + pp.getKell());
20         System.out.println("Luas Persegi Panjang : " + pp.getLuas() + "\n");
21
22         JajarGenjang jg = new JajarGenjang();
23         System.out.println("Keililing Jajar Genjang : " + jg.getKell());
24         System.out.println("Luas Jajar Genjang : " + jg.getLuas() + "\n");
25
26         Segitiga sg = new Segitiga();
27         System.out.println("Keililing Segitiga : " + sg.getKell());
28         System.out.println("Luas Segitiga : " + sg.getLuas() + "\n");
29
30         Lingkaran ling = new Lingkaran();
31         System.out.println("Keililing Lingkaran : " + ling.getKell());
32         System.out.println("Luas Lingkaran : " + ling.getLuas());
33     }
34 }
35

```

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- output

modul9 - NetBeans IDE 8.2

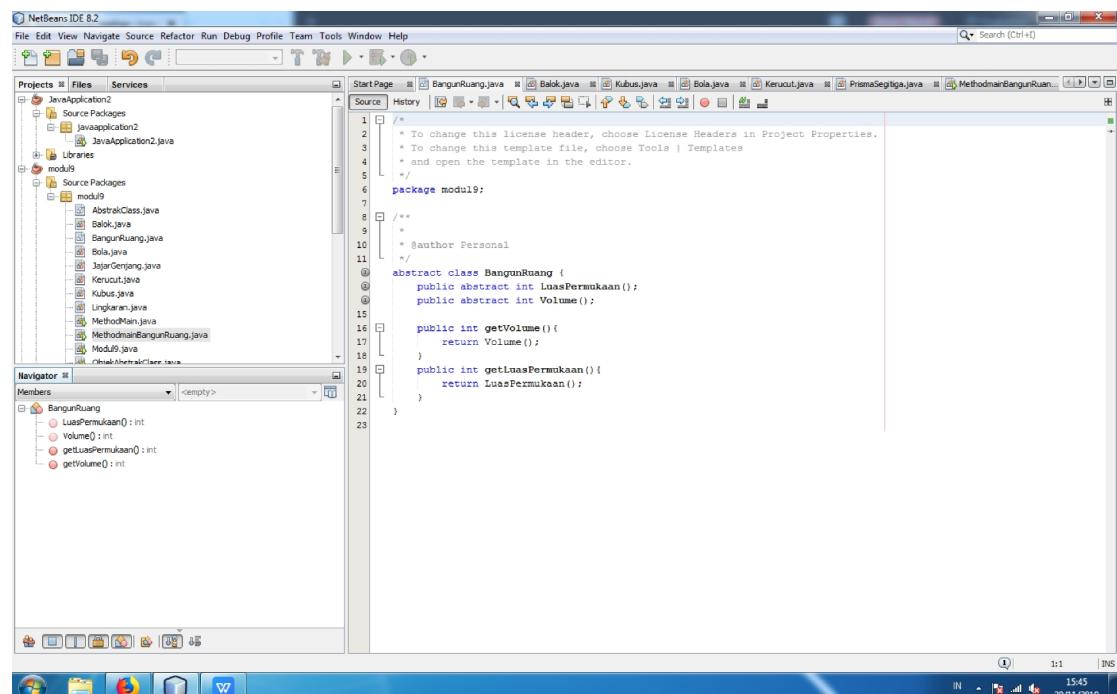
```

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 Personal
11 */
12 public class MethodMain {
13     public static void main(String[] args) {
14         Persegi pg = new Persegi();
15         System.out.println("Keililing persegi : " + pg.getKell());
16         System.out.println("Luas persegi : 36");
17
18         KeililingPersegiPanjang pp = new KeililingPersegiPanjang();
19         System.out.println("Keililing Persegi Panjang : " + pp.getKell());
20         System.out.println("Luas Persegi Panjang : 72");
21
22         KeililingJajarGenjang jg = new KeililingJajarGenjang();
23         System.out.println("Keililing Jajar Genjang : " + jg.getKell());
24         System.out.println("Luas Jajar Genjang : 14");
25
26         KeililingSegitiga sg = new KeililingSegitiga();
27         System.out.println("Keililing Segitiga : " + sg.getKell());
28         System.out.println("Luas Segitiga : 25");
29
30         KeililingLingkaran ling = new KeililingLingkaran();
31         System.out.println("Keililing Lingkaran : " + ling.getKell());
32         System.out.println("Luas Lingkaran : 568");
33
34         System.out.println("BUILD SUCCESSFUL (total time: 0 seconds)");
35

```

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9.4 Tugas

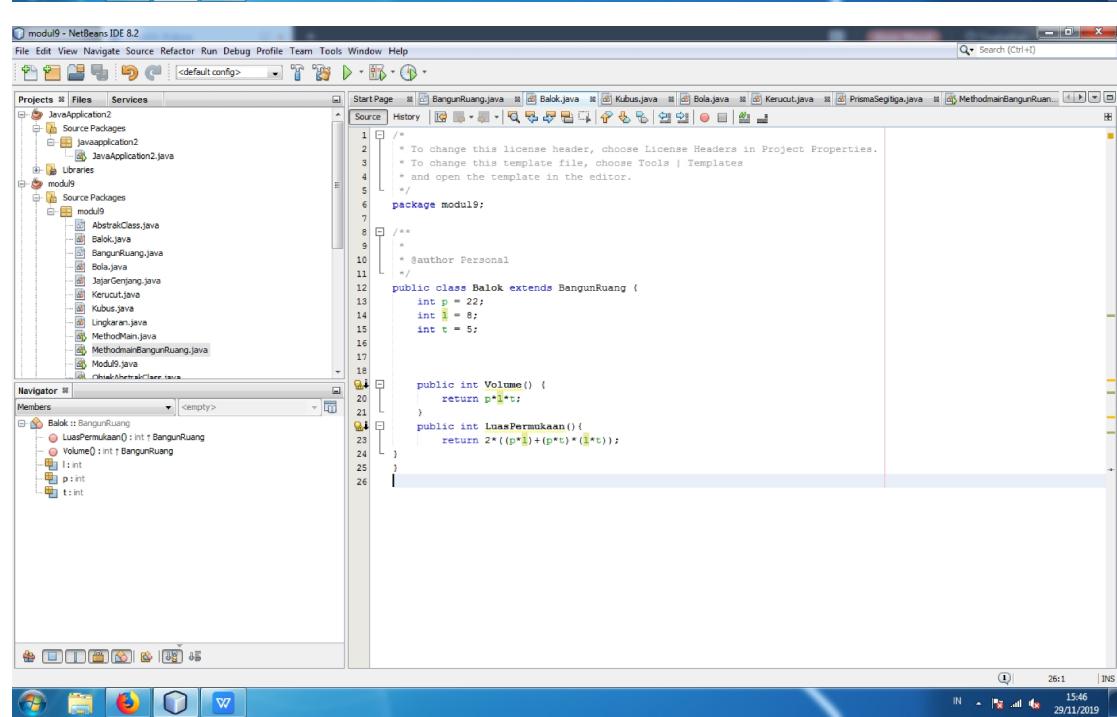


The screenshot shows the NetBeans IDE 8.2 interface. The left panel displays the project structure under 'Projects' for 'modul9'. The central editor pane shows the code for the abstract class `BangunRuang`. The code includes annotations for license headers and author information, followed by the package declaration `package modul9;`. The class `BangunRuang` is defined with two abstract methods: `LuasPermukaan()` and `Volume()`. The code ends with a closing brace for the class definition.

```
/*
 * 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 modul9;

/**
 *
 * @author Personal
 */
abstract class BangunRuang {
    public abstract int LuasPermukaan();
    public abstract int Volume();

    public int getVolume() {
        return Volume();
    }
    public int getLuasPermukaan() {
        return LuasPermukaan();
    }
}
```



The screenshot shows the NetBeans IDE 8.2 interface. The left panel displays the project structure under 'Projects' for 'modul9'. The central editor pane shows the code for the concrete class `Balok`, which extends the abstract class `BangunRuang`. The class has three private integer fields: `p`, `l`, and `t`. The constructor initializes these fields. The `Volume()` method calculates the volume as $p \times l \times t$. The `LuasPermukaan()` method calculates the surface area as $2 \times ((p \times l) + (p \times t) + (l \times t))$.

```
/*
 * 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 modul9;

public class Balok extends BangunRuang {
    int p = 22;
    int l = 8;
    int t = 5;

    public int Volume() {
        return p*l*t;
    }
    public int LuasPermukaan() {
        return 2*((p*l)+(p*t)+(l*t));
    }
}
```

modul9 - NetBeans IDE 8.2

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

Start Page BangunRuang.java Balok.java Kubus.java Bola.java Kerucut.java PrismaSegitiga.java MethodmainBangunRuang.java

Projects Files Services

JavaApplication2

Source Packages

javaapplication2 JavaApplication2.java

modul9

Source Packages

modul9

AbsrakClass.java Balok.java BangunRuang.java Bola.java JajarGenjang.java Kerucut.java Kubus.java Lingkaran.java MethodMain.java MethodmainBangunRuang.java Modul9.java ObjekAbstractPlane.java

Navigator Members

BangunRuang

- LuasPermukaan(): int : BangunRuang
- Volume(): int : BangunRuang

Source History

```
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 Personal
11 */
12 public class Kubus extends BangunRuang{
13     int s = 12;
14
15     public int Volume() {
16         return s*s*s;
17     }
18     public int LuasPermukaan() {
19         return 6*(s*s);
20     }
21 }
```

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modul9 - NetBeans IDE 8.2

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

Start Page BangunRuang.java Balok.java Kubus.java Bola.java Kerucut.java PrismaSegitiga.java MethodmainBangunRuang.java

Projects Files Services

JavaApplication2

Source Packages

javaapplication2 JavaApplication2.java

modul9

Source Packages

modul9

AbsrakClass.java Balok.java BangunRuang.java Bola.java JajarGenjang.java Kerucut.java Kubus.java Lingkaran.java MethodMain.java MethodmainBangunRuang.java Modul9.java ObjekAbstractPlane.java

Navigator Members

BangunRuang

- LuasPermukaan(): int : BangunRuang
- Volume(): int : BangunRuang

Source History

```
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 Personal
11 */
12 public class Bola extends BangunRuang{
13     int phi = 22/7;
14     int r = 28;
15
16     public int Volume() {
17         return 4*phi*r*r;
18     }
19     public int LuasPermukaan() {
20         return 4*phi*r*r;
21     }
22 }
```

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modul9 - NetBeans IDE 8.2

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

Start Page BangunRuang.java Balok.java Kubus.java Bola.java Kerucut.java PrismaSegitiga.java MethodMainBangunRuang.java Modul9.java OknumAtributClasse.java

Projects Files Services

Source History BangunRuang.java Balok.java Kubus.java Bola.java Kerucut.java PrismaSegitiga.java MethodMainBangunRuang.java Modul9.java OknumAtributClasse.java

JavaApplication2

Source Packages

modul9

modul9

AbsrakClass.java Balok.java BangunRuang.java Bola.java JajarGenjang.java Kerucut.java Kubus.java Lingkaran.java MethodMain.java MethodMainBangunRuang.java Modul9.java OknumAtributClasse.java

BangunRuang

LuasPermukaan(): int; BangunRuang

Volume(): int; BangunRuang

phi: int

r: int

s: int

t: int

Source History BangunRuang.java Balok.java Kubus.java Bola.java Kerucut.java PrismaSegitiga.java MethodMainBangunRuang.java Modul9.java OknumAtributClasse.java

Start Page BangunRuang.java Balok.java Kubus.java Bola.java Kerucut.java PrismaSegitiga.java MethodMainBangunRuang.java Modul9.java OknumAtributClasse.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 Personal
11 */
12 public class Kerucut extends BangunRuang{
13     int phi = 22/7;
14     int r = 28;
15     int s = 24;
16     int t = 30;
17
18     public int Volume() {
19         return (phi*r*r*t)/3;
20     }
21     public int LuasPermukaan(){
22         return phi*r*(t+s);
23     }
24 }
```

modul9 - NetBeans IDE 8.2

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

Start Page BangunRuang.java Balok.java Kubus.java Bola.java Kerucut.java PrismaSegitiga.java MethodMainBangunRuang.java Modul9.java OknumAtributClasse.java

Projects Files Services

Source History BangunRuang.java Balok.java Kubus.java Bola.java Kerucut.java PrismaSegitiga.java MethodMainBangunRuang.java Modul9.java OknumAtributClasse.java

JavaApplication2

Source Packages

modul9

modul9

AbsrakClass.java Balok.java BangunRuang.java Bola.java JajarGenjang.java Kerucut.java Kubus.java Lingkaran.java MethodMain.java MethodMainBangunRuang.java Modul9.java OknumAtributClasse.java

BangunRuang

LuasPermukaan(): int; BangunRuang

Volume(): int; BangunRuang

a: int

tpriama: int

tsegitiga: int

Source History BangunRuang.java Balok.java Kubus.java Bola.java Kerucut.java PrismaSegitiga.java MethodMainBangunRuang.java Modul9.java OknumAtributClasse.java

Start Page BangunRuang.java Balok.java Kubus.java Bola.java Kerucut.java PrismaSegitiga.java MethodMainBangunRuang.java Modul9.java OknumAtributClasse.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 Personal
11 */
12 public class PrismaSegitiga extends BangunRuang{
13     int a = 15;
14     int tpriama = 12;
15     int tsegitiga = 10;
16
17     public int Volume() {
18         return ((a * tsegitiga)/2) * tpriama;
19     }
20     public int LuasPermukaan(){
21         return (2 * ((a * tsegitiga)/2)) + (3 * tsegitiga * tpriama);
22     }
23 }
```

modul9 - NetBeans IDE 8.2

```

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 Personal
11 */
12 public class MethodmainBangunRuang {
13     public static void main(String[] args) {
14         Balok blk = new Balok();
15         System.out.println("Volume Balok : " + blk.Volume());
16         System.out.println("Luas Permukaan Balok : " + blk.LuasPermukaan() + "\n");
17
18         Kubus kbs = new Kubus();
19         System.out.println("Volume Kubus : " + kbs.Volume());
20         System.out.println("Luas Permukaan Kubus : " + kbs.LuasPermukaan() + "\n");
21
22         Bola bl = new Bola();
23         System.out.println("Volume Bola : " + bl.Volume());
24         System.out.println("Luas Permukaan Bola : " + bl.LuasPermukaan() + "\n");
25
26         Kerucut kr = new Kerucut();
27         System.out.println("Volume Kerucut : " + kr.Volume());
28         System.out.println("Luas Permukaan Kerucut : " + kr.LuasPermukaan() + "\n");
29
30         PrismaSegitiga ps = new PrismaSegitiga();
31         System.out.println("Volume Prisma : " + ps.Volume());
32         System.out.println("Luas Permukaan Prisma : " + ps.LuasPermukaan());
33     }
34 }
35

```

- output

modul9 - NetBeans IDE 8.2

```

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  Output - modul9 (run) :
9
10 run:
11 Volume Balok : 880
12 Luas Permukaan Balok : 9152
13
14 Volume Kubus : 1728
15 Luas Permukaan Kubus : 864
16
17 Volume Bola : 65856
18 Luas Permukaan Bola : 9408
19
20 Volume Kerucut : 18816
21 Luas Permukaan Kerucut : 4972
22
23 Volume Prisma : 500
24 Luas Permukaan Prisma : 510
25 BUILD SUCCESSFUL (total time: 0 seconds)

```