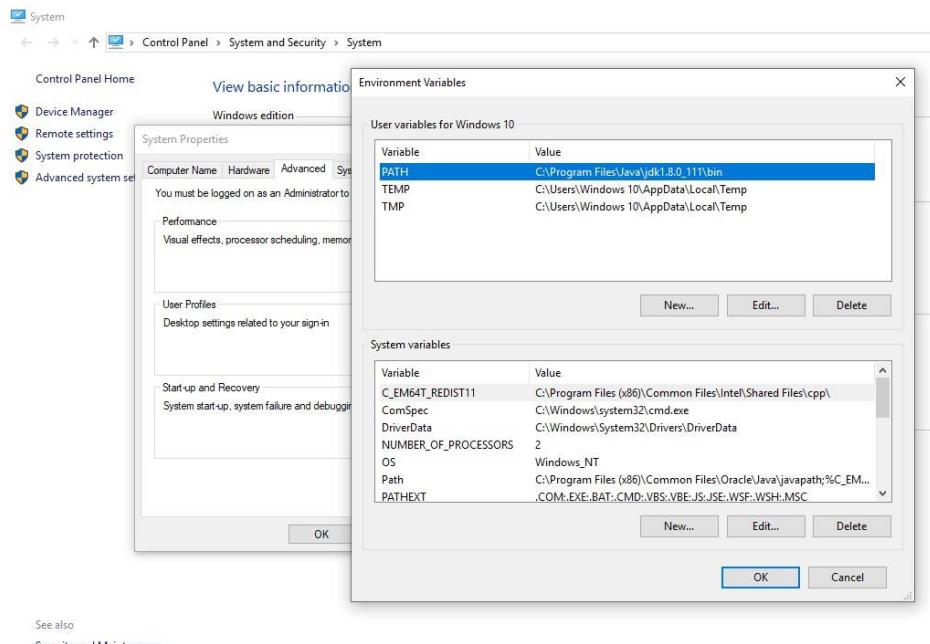


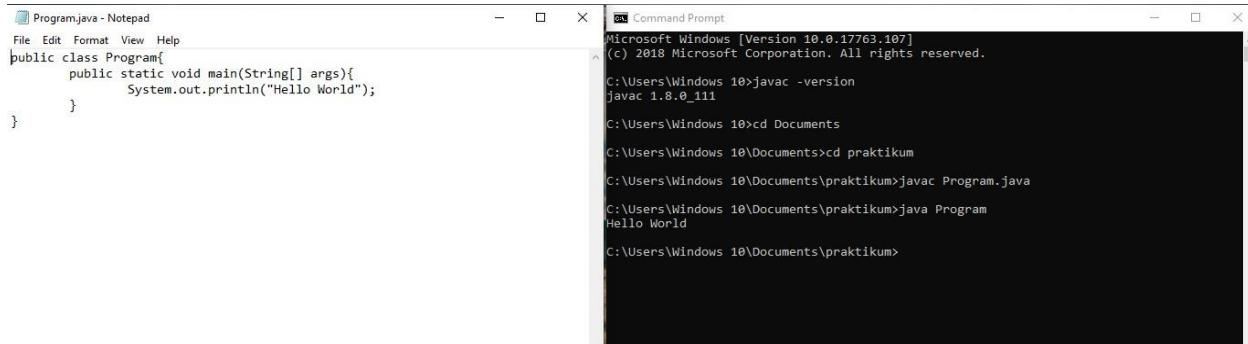
Nama : Firdaus Aulia Faza

NIM : L200180042

Menampilkan jika path sudah terpasang:



Hasil Praktikum Modul ke 1



The image shows two windows side-by-side. On the left is a Notepad window titled "Program.java - Notepad" containing the following Java code:

```
Program.java - Notepad
File Edit Format View Help
public class Program{
    public static void main(String[] args){
        System.out.println("Hello World");
    }
}
```

On the right is a Command Prompt window titled "Command Prompt" showing the execution of the Java program:

```
Microsoft Windows [Version 10.0.17763.107]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Windows 10>javac -version
javac 1.8.0_111

C:\Users\Windows 10>cd Documents
C:\Users\Windows 10\Documents>cd praktikum
C:\Users\Windows 10\Documents\praktikum>javac Program.java
C:\Users\Windows 10\Documents\praktikum>java Program
Hello World
C:\Users\Windows 10\Documents\praktikum>
```

Nama : Firdaus Aulia Faza

NIM : L200180042

C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.17134.1006]
(c) 2018 Microsoft Corporation. All rights reserved.

```
D:\>javac Roti.java
D:\>javac RotiDemo.java
D:\>java RotiDemo
Roti Roti : Hijau
Rasa Roti : Pandan
Berat Roti : 30gr
Harga Roti : Rp. 6000.0

D:\>
```

Roti.java - Notepad

```
public class Roti {
    String warna;
    String rasa;
    int berat;
    double harga;

    void beriWarna(String warnaRoti) {
        warna = warnaRoti;
    }

    void berirasa(String rasaRoti) {
        rasa = rasaRoti;
    }

    void timbangBerat(int beratRoti) {
        berat = beratRoti;
    }

    void hargaJual(double hargaRoti) {
        harga = hargaRoti;
    }

    void infoRoti() {
        System.out.println(
            "Roti Roti : " + warna +
            "Rasa Roti : " + rasa +
            "Berat Roti : " + berat +
            "Harga Roti : Rp. " + harga
        );
    }
}
```

RotiDemo.java - Notepad

```
public class RotiDemo{
    public static void main(String[] args) {
        Roti roti = new Roti();
        roti.beriWarna("Hijau");
        roti.berirasa("Pandan");
        roti.timbangBerat(30);
        roti.hargaJual(6000);
        roti.infoRoti();
    }
}
```

C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.17134.1006]
(c) 2018 Microsoft Corporation. All rights reserved.

```
D:\>javac Hewan.java
D:\>javac HewanDemo.java
D:\>java HewanDemo
Jumlah Kaki : 2
Warna Hewan : Hitam Putih
Golongan : Liar
Berat Hewan : 2

D:\>
```

Hewan.java - Notepad

```
public class Hewan {
    void jumlahKaki(String kakiHewan) {
        kaki = kakiHewan;
    }

    void beriWarna(String warnaHewan) {
        warna = warnaHewan;
    }

    void golonganHewan(String sifatHewan) {
        golongan = sifatHewan;
    }

    void timbangBerat(int beratHewan) {
        berat = beratHewan;
    }

    void infoHewan() {
        System.out.println(
            "Jumlah Kaki : " + kaki +
            "Warna Hewan : " + warna +
            "Golongan : " + golongan +
            "Berat Hewan : " + berat
        );
    }
}
```

HewanDemo.java - Notepad

```
public class HewanDemo{
    public static void main(String[] args) {
        Hewan hewan = new Hewan();
        hewan.jumlahKaki("2");
        hewan.beriWarna("Hitam Putih");
        hewan.golonganHewan("Liar");
        hewan.timbangBerat(2);
        hewan.infoHewan();
    }
}
```

A screenshot of a Windows desktop environment. On the left, a black command prompt window titled 'C:\Windows\System32\cmd.exe' shows Java code compilation and execution. In the center, there are two windows titled 'Car.java - Notepad' and 'CarDemo.java - Notepad'. The 'Car.java' window contains the source code for a 'Car' class with methods for changing cadence, speed, and gear, and printing info. The 'CarDemo.java' window contains the main program that creates two 'Car' objects, changes their properties, and prints their info. On the right, a taskbar is visible with icons for File Explorer, Edge browser, and other system tools.

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.17134.1006]
(c) 2018 Microsoft Corporation. All rights reserved.

D:\>javac Car.java
D:\>javac CarDemo.java

D:\>java CarDemo
Cadence : 50
Speed : 20
Gear : 2

Cadence : 30
Speed : 10
Gear : 1

D:\>
```

```
Car.java - Notepad
File Edit Format View Help
public class Car {
    int cadence;
    int speed;
    int gear;

    void changeCadence(int changeCadence) {
        cadence = changeCadence;
    }

    void speedUp(int speedUp) {
        speed = speedUp;
    }

    void changeGear(int changeGear) {
        gear = changeGear;
    }

    void printInfo() {
        System.out.println(
            "Cadence : " + cadence + "\n" +
            "Speed : " + speed + "\n" +
            "Gear : " + gear + "\n");
    }
}
```

```
CarDemo.java - Notepad
File Edit Format View Help
public class CarDemo{
    public static void main(String[] args) {
        Car car1 = new Car();
        Car car2 = new Car();

        car1.changeCadence(50);
        car1.speedUp(20);
        car1.changeGear(2);
        car1.printInfo();

        car2.changeCadence(30);
        car2.speedUp(10);
        car2.changeGear(1);
        car2.printInfo();
    }
}
```

DOSEN

The screenshot shows the Eclipse IDE interface with the following details:

- Project Structure:** The Package Explorer shows a project named "Lathan" containing packages "Universitas" and "src". The "src" package contains classes "Dosen.java" and "module-info.java".
- Code Editor:** The main editor displays the "Dosen.java" code. The code defines a class "Dosen" with methods to print name, birth date, ID, and a static main method.
- Outline View:** The Outline view on the right shows the class structure: Universitas (name: String, pendidikan: String, nik: int, tgllahir: String) and Dosen (name: String, pendidikan: String, nik: int, tgllahir: String).
- Console:** The Console tab shows the output of the Java application running in the terminal.
- Bottom Status Bar:** Shows the current time as 18:18:364.

```
1 package Universitas;
2
3 public class Dosen {
4     String nama, pendidikan;
5     int nik;
6     String tgllahir;
7
8     void tampilkanNama (String namaDosen) {
9         nama = namaDosen;
10    }
11    void tampilkanTglLahir (String tglBaru) {
12        tgllahir = tglBaru;
13    }
14    void tampilkanNik (int nikBaru) {
15        nik = nikBaru;
16    }
17    void print(){
18        System.out.println(
19            "nama : " + nama + "\n" +
20            "nik : " + nik + "\n" +
21            "pendidikan : Sarjana \n" +
22            "tgllahir : " + tgllahir + "\n");
23    }
24
25
26    public static void main(String[] args) {
27        Dosen dosen = new Dosen();
28        dosen.tampilkanNama("Firdaus Aulia Faza");
29        dosen.tampilkanTglLahir("21 November 1999");
30        dosen.tampilkanNik(2002820018);
31        dosen.print();
32    }
33 }
34
```

```
Problems Javadoc Declaration Console
<terminated> Dosen[Java Application] C:\Program Files\Java\jdk-13\bin\javaw.exe (Sep 27, 2019, 11:07:19 AM)
nama : Firdaus Aulia Faza
nik : 2002820018
Pendidikan : Sarjana
tgllahir : 21 November 1999
```

MAHASISWA

The screenshot shows the Eclipse IDE interface with the following details:

- Project Structure:** The Package Explorer shows a project named "Lathan" containing packages "Universitas" and "src". The "src" package contains classes "Dosen.java", "Mahasiswa.java", and "module-info.java".
- Code Editor:** The main editor displays the "Mahasiswa.java" code. The code defines a class "Mahasiswa" with methods to print name, ID, address, and semester.
- Outline View:** The Outline view on the right shows the class structure: Universitas (name: String, nim: String, alamat: String, semester: int) and Mahasiswa (name: String, nim: String, alamat: String, semester: int).
- Console:** The Console tab shows the output of the Java application running in the terminal.
- Bottom Status Bar:** Shows the current time as 32:36:914.

```
1 package Universitas;
2
3 public class Mahasiswa {
4     String nama, nim, alamat;
5     int semester;
6
7     void tampilkanNama (String namaMahasiswa) {
8         nama = namaMahasiswa;
9     }
10    void tampilkanNim (String nimBaru) {
11        nim = nimBaru;
12    }
13    void tampilkanAlamat (String alamatBaru) {
14        alamat = alamatBaru;
15    }
16    void tampilkanSemester (int semesterBaru) {
17        semester = semesterBaru;
18    }
19    void print(){
20        System.out.println(
21            "Nama : " + nama + "\n" +
22            "Nim : " + nim + "\n" +
23            "Alamat : " + alamat + "\n" +
24            "Semester : " + semester + "\n");
25    }
26
27
28    public static void main(String[] args) {
29        Mahasiswa mahasiswa = new Mahasiswa();
30        mahasiswa.tampilkanNama("Apa Elo Teg");
31        mahasiswa.tampilkanNim("081327949511");
32        mahasiswa.tampilkanAlamat(" ");
33        mahasiswa.tampilkanSemester(3);
34        mahasiswa.print();
35    }
36 }
```

```
Problems Javadoc Declaration Console
<terminated> Mahasiswa[Java Application] C:\Program Files\Java\jdk-13\bin\javaw.exe (Sep 27, 2019, 11:29:01 AM)
Nama : Apa Elo Teg
Nim : 081327949511
Alamat : amerika
Semester : 3
```

KARYAWAN

The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - Lathan/src/Universitas/karyawan.java - Eclipse IDE". The left sidebar shows a package structure with "Lathan" containing "src" which has "Universitas" and "karyawan.java". The main editor window displays the code for Karyawan.java:

```
module-info.java Dosenjava Mahasiswa.java karyawan.java
1 package Universitas;
2
3 import java.util.Scanner;
4
5 public class Karyawan {
6     String nama, alamat, jabatan;
7     double gaji;
8
9     void tampilkanNama (String namaKaryawan) {
10         nama = namaKaryawan;
11     }
12     void tampilkanJabatan (String jabatanBaru) {
13         jabatan = jabatanBaru;
14     }
15     void tampilkanAlamat (String alamatBaru) {
16         alamat = alamatBaru;
17     }
18     void tampilkanGaji (double gajiBaru) {
19         gaji = gajiBaru;
20     }
21     void print(){
22         System.out.println(
23             "nama : " + nama + "\n" +
24             "jabatan : " + jabatan + "\n" +
25             "alamat : " + alamat + "\n" +
26             "gaji : Rp." + gaji + ",-\n");
27     }
28     public static void main(String[] args) {
29         Karyawan Karyawan = new Karyawan();
30         Karyawan.beriNama("Firdaus");
31         Karyawan.tampilkanJabatan("guru");
32         Karyawan.tampilkanAlamat("ambil");
33         Karyawan.tampilkanGaji(2000000);
34         Karyawan.print();
35     }
}
Problems Javadoc Declaration Console
<terminated> karyawan [Java Application] C:\Program Files\Java\jdk-13\bin\javaw.exe (Sep 27, 2019, 11:33:00 AM)
nama : Firdaus
jabatan : Dosen Magang
alamat : Pajang
gaji : Rp.2000000.0,-
```

The console output shows the printed details of the Karyawan object.

HEWAN

The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - Lathan/src/Hewan/hewan.java - Eclipse IDE". The left sidebar shows a package structure with "Lathan" containing "src" which has "Hewan" and "hewan.java". The main editor window displays the code for hewan.java:

```
module-info.java Dosenjava Mahasiswa.java karyawan.java hewan.java
1 package Hewan;
2
3 import java.util.Scanner;
4
5 public class hewan {
6     int kaki;
7     void beriNama (String namaHewan) {
8         nama = namaHewan;
9     }
10    void beriMakanan (String makananHewan) {
11        makanan = makananHewan;
12    }
13    void hitungKaki (int jumlahKaki) {
14        kaki = jumlahKaki;
15    }
16    void typeHewan (String typeHewan){
17        type = typeHewan;
18    }
19    void detailHewan() {
20        System.out.println(
21             "Nama Hewan : " + nama + "\n" +
22             "Jumlah Kaki : " + kaki + "\n" +
23             "Makanan : " + makanan + "\n" +
24             "Type Hewan : " + type );
25    }
26    public static void main(String[] args) {
27        hewan hewan1 = new hewan();
28        hewan hewan2 = new hewan();
29
30        hewan1.beriNama("Harimau");
31        hewan1.hitungKaki(4);
32        hewan1.beriMakanan("Daging");
33        hewan1.typeHewan("Karnivora");
34        hewan1.detailHewan();
35
36        hewan2.beriNama("Kerbau");
37        hewan2.hitungKaki(4);
38        hewan2.beriMakanan("Rumput");
39        hewan2.typeHewan("Herbivora");
40        hewan2.detailHewan();
}
Problems Javadoc Declaration Console
<terminated> hewan [Java Application] C:\Program Files\Java\jdk-13\bin\javaw.exe (Sep 27, 2019, 11:38:07 AM)
Makanan : Daging
Type Hewan : Carnivora
```

The console output shows the details of the hewan objects.

Praktikum 4

Nama : Firdaus Aulia Faza

NIM : L200180042

Kelas : B

Private Modifier

```
PrivateModifier.java
1 public class PrivateModifier {
2     private String nama;
3     private int umur;
4     public void printinfo() {
5         System.out.println("Private Modifier");
6     }
7 }
8
9
10

PrivateModifierDemo.java
1 public class PrivateModifierDemo {
2     public static void main(String[] args) {
3         PrivateModifier PMD = new PrivateModifier();
4         PMD.printinfo();
5         PMD.nama();
6         PMD.umur();
7     }
8 }
9
10

Problems @ Javadoc Declaration Console
<terminated> PrivateModifierDemo [Java Application] C:\Program Files\Java\jre1.8.0_231\bin\javaw.exe (22 Oct 2019, 15:50:58)
Exception in thread "main" java.lang.Error: Unresolved compilation problems:
The method nama() is undefined for the type PrivateModifier
The method umur() is undefined for the type PrivateModifier
at PrivateModifierDemo.main(PrivateModifierDemo.java:6)
```

Default Modifier

```
DefaultModifier.java
1 public class DefaultModifier {
2     int a = 1;
3     int b = 2;
4     int c;
5
6     void jumlah () {
7         c = a + b;
8         System.out.println(c);
9     }
10
11 }
12
13

DefaultModifierDemo.java
1 public class DefaultModifierDemo {
2     public static void main (String[] args) {
3         DefaultModifier DM = new DefaultModifier();
4         DM.jumlah();
5     }
6 }
7
8

Problems @ Javadoc Declaration Console
<terminated> DefaultModifierDemo [Java Application] C:\Program Files\Java\jre1.8.0_231\bin\javaw.exe (22 Oct 2019, 15:56:49)
3
```

Protected Modifier

The screenshot shows the Eclipse IDE interface with two Java files open in separate editors:

- ProtectedModifier.java**: Contains a class named `ProtectedModifier` with a protected method `printInfo()` and a protected method `sendMessage()`. Both methods print their respective messages to `System.out`.
- ProtectedModifierDemo.java**: Contains a class named `ProtectedModifierDemo` with a main method. It creates an instance of `ProtectedModifier` and calls its `printInfo()` and `sendMessage()` methods.

The Eclipse interface includes tabs for Problems, Javadoc, Declaration, and Console. The Console tab shows the output of the application's execution, which includes the messages printed by the protected methods.

```
1 public class ProtectedModifier {  
2     protected void printInfo() {  
3         System.out.println("Protected Modifier");  
4     }  
5     protected void sendMessage() {  
6         System.out.println("This Is a Message");  
7     }  
8 }  
9  
10 }  
11  
  
1 public class ProtectedModifierDemo {  
2     public static void main(String[] args) {  
3         ProtectedModifier p = new ProtectedModifier();  
4         p.printInfo();  
5         p.sendMessage();  
6     }  
7 }  
8  
9 }  
10  
  
Problems @ Javadoc Declaration Console  
<terminated> ProtectedModifierDemo [Java Application] C:\Program Files\Java\jre1.8.0_231\bin\javaw.exe (22 Oct 2019, 16:19:34)  
Protected Modifier  
This Is a Message
```

Public Modifier

The screenshot shows the Eclipse IDE interface with two Java files open in separate editors:

- PublicModifier.java**: Contains a class named `PublicModifier` with three public integer fields (`a`, `b`, `c`) and a public method `kali()`. The `kali()` method calculates the product of `a`, `b`, and `c` and prints the result to `System.out`.
- PublicModifierDemo.java**: Contains a class named `PublicModifierDemo` with a main method. It creates an instance of `PublicModifier` and calls its `kali()` method.

The Eclipse interface includes tabs for Problems, Javadoc, Declaration, and Console. The Console tab shows the output of the application's execution, which includes the message printed by the public method.

```
1 public class PublicModifier {  
2     public int a = 2;  
3     public int b = 5;  
4     public int c = 9;  
5     public void kali() {  
6         int d = a*b*c;  
7         System.out.println("Hasil Kali = " + d);  
8     }  
9 }  
10  
11  
  
1 public class PublicModifierDemo {  
2     public static void main (String[] args) {  
3         PublicModifier PMD = new PublicModifier();  
4         PMD.kali();  
5     }  
6 }  
7  
8 }  
9  
  
Problems @ Javadoc Declaration Console  
<terminated> PublicModifierDemo [Java Application] C:\Program Files\Java\jre1.8.0_231\bin\javaw.exe (22 Oct 2019, 18:34:22)  
Hasil Kali = 90
```

NAMA : FIRDAUS AULIA FAZA

NIM : L200180042

MODUL 5

The screenshot shows a Java IDE interface with multiple tabs at the top. The active tab is 'Latihan1.java'. The code in the editor is as follows:

```
1
2 public class Latihan1 {
3     String nama = "Firdaus Aulia Faza";
4     String nim = "L200180042";
5     String alamat = "Solo";
6
7     public Latihan1() {
8         System.out.println("Nama : " + nama);
9         System.out.println("NIM : " + nim);
10        System.out.println("Alamat : " + alamat);
11    }
12 }
13
```

The screenshot shows an IDE interface with two main panes. The top pane displays the code for `Main.java`, which contains a single class definition:

```
1 public class Main {  
2     public static void main(String[] args) {  
3         Latihan1 K = new Latihan1();  
4     }  
5 }  
6  
7 }  
8 }
```

The bottom pane shows the `Console` tab with the following output:

```
<terminated> Main [Java Application] C:\Program Files\Java\jdk-13\bin\javaw.exe (Dec 26, 2019, 1:41:12 PM)  
Nama : Firdaus Aulia Faza  
NIM : L200180042  
Alamat : Solo
```

The screenshot shows the Eclipse IDE interface. The top part displays the code for `Parameterized.java`. The code defines a class `Parameterized` with three fields: `nama`, `nim`, and `semester`. It has a constructor that takes `nama`, `semester`, and `nim` as parameters and initializes the fields. It also has a `info()` method that prints the values of `nama`, `semester`, and `nim` to the console. The bottom part shows the `Console` tab with the output of running the application. The output shows the variables `Nama`, `NIM`, and `Alamat` with their corresponding values: Firdaus Aulia Faza, L200180042, and Solo.

```
1 |
2 public class Parameterized {
3     String nama, nim;
4     int semester;
5
6     public Parameterized(String nama, int semester, String nim) {
7         this.nama = nama;
8         this.semester = semester;
9         this.nim = nim;
10    }
11
12    public void info() {
13        System.out.println("Nama : " + nama + "\n" + "Semester : " + semester + "\n" + "NIM : " + nim);
14    }
15 }
16
17
```

Problems @ Javadoc Declaration Console

<terminated> Main [Java Application] C:\Program Files\Java\jdk-13\bin\javaw.exe (Dec 26, 2019, 1:41:12 PM)

Nama : Firdaus Aulia Faza
NIM : L200180042
Alamat : Solo

The screenshot shows a Java development environment with the following details:

- Top Bar:** Shows various icons for file operations, search, and navigation.
- Project Explorer:** Lists files including "Buku.java", "BukuDemo.java", "Latihan1.java", "Main.java", "Parameterized.j...", "ParameterizedD...", and "DefaultConstuct...".
- Code Editor:** Displays the following Java code:

```
1 public class ParameterizedDemo {  
2     public static void main(String[] args) {  
3         Parameterized P = new Parameterized("Firdaus", 3, "L200180042");  
4         P.info();  
5     }  
6 }  
7  
8 }
```
- Console Output:** Shows the output of the program execution:

```
<terminated> ParameterizedDemo [Java Application] C:\Program Files\Java\jdk-13\bin\javaw.exe (Dec 26, 2019, 1:41:53 PM)  
Nama : Firdaus  
Semester : 3  
NIM : L200180042
```

```
1 |
2 public class DefaultConstructor {
3     public DefaultConstructor() {
4         System.out.println("Default Constructor");
5     }
6
7     public static void main (String[] args) {
8         DefaultConstructor a = new DefaultConstructor();
9     }
10 }
11
12 /*
13  * 
14  */
15
16
17
18 public class Buku {
19     public String namaPengarang ;
20     public String judulBuku ;
21     public int tahunTerbit;
22     public int cetakanKe;
23     public double hargaJual;
24
25     public Buku (String namaPengarang, String judulBuku, int tahunTerbit, int cetakanKe, double hargaJual)
26     {
27         this.namaPengarang = namaPengarang;
28         this.judulBuku = judulBuku;
29         this.tahunTerbit = tahunTerbit;
30         this.cetakanKe = cetakanKe;
31         this.hargaJual = hargaJual;
32     }
33
34     public void print (){
35         System.out.println ("Nama Pengarang = " + namaPengarang);
36         System.out.println("Judul = " + judulBuku );
37         System.out.println("Tahun Terbit = " + tahunTerbit);
38         System.out.println("CetakanKe = " + cetakanKe);
39         System.out.println("Harga jual = " + hargaJual);
40
41     }
42
43     public static void main(String[] args) {
44         Buku buku1 = new Buku("Resky", "Kisah seorang bapuk,", 2, 3, 200000);
45         Buku buku2 = new Buku ("Andrea", "Advance", 2001, 2, 30000);
46         Buku buku3 = new Buku ("Terra", "Your Name", 2010, 3, 12000);
47         Buku buku4 = new Buku ("Accelerator", "My Name", 2002, 3, 1);
48         Buku buku5 = new Buku ("Mikoto", "World", 2017, 1, 0);
49         Buku buku6 = new Buku ("test", "Domination", 2018, 1, 111111);
50         Buku buku7 = new Buku ("test2", "For You", 2019, 2, 100000);
51         Buku buku8 = new Buku ("Kamnre", "After Dark", 2000, 3, 100000);
52     }
53 }
```

```
26     System.out.println("Nama Pengarang = " + namaPengarang);
27     System.out.println("Judul = " + judulBuku );
28     System.out.println("Tahun Terbit = " + tahunTerbit);
29     System.out.println("CetakanKe = " + cetakanKe);
30     System.out.println("Harga jual = " + hargaJual);
31 }
32
33 public static void main(String[] args) {
34     Buku bukul = new Buku("Resky", "Kisah seorang bapuk", 2, 3, 200000);
35     Buku buku2 = new Buku ("Andrea", "Advance", 2001, 2, 30000);
36     Buku buku3 = new Buku ("Terra", "Your Name", 2010, 3, 12000);
37     Buku buku4 = new Buku ("Accelerator", "My Name", 2002, 3, 1);
38     Buku buku5 = new Buku ("Mikoto", "World", 2017, 1, 0);
39     Buku buku6 = new Buku ("test", "Domination", 2018, 1, 111111);
40     Buku buku7 = new Buku ("test2", "For You", 2019, 2, 100000);
41     Buku buku8 = new Buku ("Kampret", "After Dark", 2000, 3, 100000);
42     Buku buku9 = new Buku ("Kupret", "After Light", 2001, 1, 70000);
43     Buku buku10 = new Buku ("kopret", "Why Why?", 2011, 3, 10000);
44     bukul.print();
45     buku2.print();
46     buku3.print();
47     buku4.print();
48     buku5.print();
49     buku6.print();
50     buku7.print();
51     buku8.print();
52     buku9.print();
53     buku10.print();
54 }
55 }
```

modul5.Buku > main >

Output - Modul5 (run) >

```
Tahun Terbit = 2019
CetakanKe = 2
Harga jual = 100000.0
Nama Pengarang = Kampret
Judul = After Dark
Tahun Terbit = 2000
CetakanKe = 3
Harga jual = 100000.0
Nama Pengarang = Kupret
Judul = After Light
Tahun Terbit = 2001
CetakanKe = 1
Harga jual = 70000.0
Nama Pengarang = kopret
Judul = Why Why?
Tahun Terbit = 2011
CetakanKe = 3
Harga jual = 10000.0
```

Nama : Firdaus Aulia Faza

NIM : L200180042

Bangung Datar

```
1 BangunDatar.... ✘ 2 Persegijava 3 Segitiga.java 4 SegitigaSam... 5 SegitigaSam... »1
1 package Tugas;
2
3 public class BangunDatar {
4     protected double luas;
5     protected double keliling;
6
7     protected void hitungKeliling() {
8         System.out.println(keliling);
9     }
10
11
12     protected void hitungLuas() {
13         System.out.println(luas);
14     }
15
16
17     public static void main(String[] args) {
18         Persegi cetak1 = new Persegi();
19         cetak1.keliling();
20         cetak1.luas();
21
22         PersegiPanjang cetak2 = new PersegiPanjang();
23         cetak2.luas();
24         cetak2.keliling();
25     }
26
27
28 }
```

Persegi

```
1 Persegijava ✘ 2 PersegiPanj... 3 Segitiga.java 4 SegitigaSam... 5 SegitigaSam... »1
1 package Tugas;
2
3 public class Persegi extends BangunDatar{
4     protected double sisi = 30;
5
6     void luas() {
7         luas = sisi*sisi;
8         System.out.println("Luas Persegi Trifect : " + luas );
9     }
10    void keliling() {
11        keliling = 2*(sisi+sisi);
12        System.out.println("Keliling Trifect : " + keliling);
13    }
14 }
15
```

Persegi Panjang

The screenshot shows a Java code editor with multiple tabs at the top: BangunDatar.java, Persegijava, PersegiPanjang.java, Segitiga.java, SegitigaSamaKaki.java, and SegitigaSamaSisi.java. The PersegiPanjang.java tab is active. The code in the editor is:

```
1 package Tugas;
2
3 public class PersegiPanjang extends BangunDatar{
4     protected int panjang = 1000;
5     protected double lebar = 1000;
6
7     void luas() {
8         luas = panjang*lebar;
9         System.out.println("Luas Persegi Panjang Trifect : " + luas);
10    }
11
12    void keliling() {
13        keliling = 2*(panjang + lebar);
14        System.out.println ("Keliling Persegi Panjang Trifect : " + keliling);
15    }
16
17 }
18
```

Segitiga

The screenshot shows a Java code editor with multiple tabs at the top: BangunDatar.java, Persegijava, PersegiPanjang.java, Segitiga.java, SegitigaSamaKaki.java, and SegitigaSamaSisi.java. The Segitiga.java tab is active. The code in the editor is:

```
1 package Tugas;
2
3 public class Segitiga extends BangunDatar{
4     protected double alas;
5
6 }
7
```

Segitiga Sama Kaki

The screenshot shows a Java code editor with multiple tabs at the top: BangunDatar.java, Persegijava, PersegiPanjang.java, Segitiga.java, SegitigaSamaKaki.java, and SegitigaSamaSisi.java. The SegitigaSamaKaki.java tab is active. The code in the editor is:

```
1 package Tugas;
2
3 public class SegitigaSamaKaki extends Segitiga {
4     protected double sisiMiring;
5 }
6
```

Segitiga Sama Sisi

The screenshot shows a Java code editor with multiple tabs at the top: BangunDatar.java, Persegijava, PersegiPanjang.java, Segitiga.java, SegitigaSamaKaki.java, and SegitigaSamaSisi.java. The SegitigaSamaSisi.java tab is active. The code in the editor is:

```
1 package Tugas;
2
3 public class SegitigaSamaSisi extends Segitiga {
4     protected double sisi;
5 }
6
```

Hasil

Keliling Trifect : 120.0
Luas Persegi Trifect : 900.0
Luas Persegi Panjang Trifect : 1000000.0
Keliling Persegi Panjang Trifect : 4000.0

NAMA : FIRDAUS AULIA FAZA

NIM : L200180042

```
1 package Latihan;
2
3
4 @public class Karyawan {
5     protected String nama;
6     protected float gaji;
7     protected int usia;
8
9     public String getNama() {
10         return nama;
11     }
12     public void setNama(String nama) {
13         this.nama = nama;
14     }
15     public float getGaji() {
16         return gaji;
17     }
18     public void setGaji(float gaji) {
19         this.gaji = gaji;
20     }
21     public int getUsia() {
22         return usia;
23     }
24     public void setUsia (int usia) {
25         this.usia = usia;
26     }
27 }
```

The screenshot shows a Java application running in an IDE. The code in the source editor is as follows:

```
1 package Latihan;
2
3 public class KaryawanDemo {
4     public static void main (String[] args) {
5         Karyawan K1 = new Karyawan();
6         K1.setNama("Kampret");
7         K1.setUsia(21);
8
9         System.out.println(K1.getNama());
10        System.out.println(K1.getGaji());
11        System.out.println(K1.getUsia());
12    }
13 }
14 }
```

The output window shows the results of the program execution:

```
run:
Kampret
0.0
21
BUILD SUCCESSFUL (total time: 0 seconds)
```

```
1 package Latihan;
2
3 public class Manager extends Karyawan {
4     private float jamKerja = 7.5f;
5     public String alamat;
6
7
8     public float getJamKerja() {
9         return jamKerja;
10    }
11
12    public void setJamKerja(float jamKerja) {
13        this.jamKerja = jamKerja;
14    }
15    public float getgajiManager() {
16        return 2 * getGaji();
17    }
18    public String getAlamat() {
19        return alamat;
20    }
21    public void setAlamat(String alamat) {
22        this.alamat = alamat;
23    }
24}
25
```



Output - Modul 7 (run) ×

```
run:
Kampret
0.0
21
BUILD SUCCESSFUL (total time: 0 seconds)
```

```
3
4  public class ManagerDemo {
5    public static void main (String[] args) {
6      Manager M1 = new Manager();
7      M1.setNama("Wewa");
8      M1.setGaji(500000);
9      M1.setUsia(25);
0      M1.setJamKerja((float) 8.5);
1      M1.setAlamat("Solo");
2
3      System.out.println(M1.getNama());
4      System.out.println(M1.getGaji());
5      System.out.println(M1.getUsia());
6      System.out.println(M1.getAlamat());
7      System.out.println(M1.getJamKerja());
8
9    }
0 }
```

Latihan.ManagerDemo > main >

Input - Modul 7 (run) X

```
run:
Wewa
500000.0
25
Solo
8.5
BUILD SUCCESSFUL (total time: 0 seconds)
```

Nama : Firdaus Aulia Faza

NIM : L200180042

LATIHAN

```
9  * @author firda
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 getKell(){
19         return keliling();
20     }
21 }
22 }
```

```
8  *
9  * @author firda
10 */
11 public class JajarGenjang extends MethodAbstract {
12     int alas = 10;
13     int tinggi = 20;
14     int b = 22;
15     @Override
16     public int luas (){
17         return alas*tinggi;
18     }
19     @Override
20     public int keliling(){
21         return 2*(alas+b);|
22     }
23 }
24 }
```

```
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  /**
7  *
8  * @author firda
9  */
10 public class Lingkaran extends MethodAbstract {
11     int pi = 22/7;
12     int jari = 7;
13     @Override
14     public int luas (){
15         return pi*jari*jari;
16     }
17     @Override
18     public int keliling(){
19         return 2*pi+jari;
20     }
21 }
22 }
```

```
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6
7  /**
8  *
9  * @author firda
10 */
11 public class PersegiPanjang extends MethodAbstract {
12     int panjang = 5;
13     int lebar = 10;
14     @Override
15     public int luas (){
16         return panjang*lebar;
17     }
18     @Override
19     public int keliling(){
20         return 2*panjang+lebar;
21     }
22 }
```

```
4  |     * and open the template in the editor.
5  |     */
6  |
7  |     /**
8  |     *
9  |     * @author firda
10 |     */
11 |    public class Segitiga extends MethodAbstract {
12 |        int alas = 5;
13 |        int tinggi = 10;
14 |        int b = 12;
15 |        int c = 14;
16 |        @Override
17 |        public int luas () {
18 |            return alas*tinggi/2;
19 |        }
20 |        @Override
21 |        public int keliling() {
22 |            return alas+b+c;
23 |        }
24 |
25 |    }
26 |}
```

```
6
7  /**
8  *
9  * @author firda
10 */
11 public class MethodMain {
12     public static void main(String[] args) {
13         Segitiga sgt = new Segitiga();
14         JajarGenjang jg = new JajarGenjang();
15         PersegiPanjang pp = new PersegiPanjang();
16         Lingkaran L = new Lingkaran();
17         System.out.println("Keliling Segitiga = " + sgt.keliling());
18         System.out.println("Luas Segitiga = " + sgt.luas());
19         System.out.println("Keliling JajarGenjang = " + jg.keliling());
20         System.out.println("Luas JajarGenjang = " + jg.luas());
21         System.out.println("Keliling PersegiPanjang = " + pp.keliling());
22         System.out.println("Luas PersegiPanjang = " + pp.luas());
23         System.out.println("Keliling Lingkaran = " + L.keliling());
24         System.out.println("Luas Lingkaran = " + L.luas());
25     }
26 }
27 }
28 }
```

MethodMain > main > L

Output - Module9 (run) X

```
run:
Keliling Segitiga = 31
Luas Segitiga = 25
Keliling JajarGenjang = 64
Luas JajarGenjang = 200
Keliling PersegiPanjang = 20
Luas PersegiPanjang = 50
Keliling Lingkaran = 13
Luas Lingkaran = 147
BUILD SUCCESSFUL (total time: 0 seconds)
```

Ao

SOAL BANGUN RUANG

```
4 |     ^ and open the template in the editor.
5 |
6 |
7 |     /**
8 |     *
9 |     * @author firda
10|     */
11|    public class Segitiga extends MethodAbstract {
12|        int alas = 5;
13|        int tinggi = 10;
14|        int b = 12;
15|        int c = 14;
16|        @Override
17|        public int luas () {
18|            return alas*tinggi/2;
19|        }
20|        @Override
21|        public int keliling() {
22|            return alas+b+c;
23|        }
24|
25|    }
26|}
```

```
5 |     */
6 |     package BangunRuang;
7 |
8 |     /**
9 |     * Luas
10|     *
11|     * @author firda
12|     */
13|     public abstract class MethodAbstract {
14|         public abstract int Volume ();
15|         public abstract int LuasSelimut();
16|         public int getVolume () {
17|             return Volume();
18|         }
19|         public int getSelimut() {
20|             return LuasSelimut();|
21|         }
22|     }
23|
24|
25|}
```

```
    */
    package BangunRuang;

    /**
     *
     * @author firda
     */
    public class Balok extends MethodAbstract {
        int p = 18;
        int l = 20;
        int t = 22;
        @Override
        public int Volume(){
            return p*l*t;
        }
        @Override
        public int LuasSelimut(){
            return 2*(p*l+p*t+l*t);
        }
    }
```

```
    */
    package BangunRuang;

    /**
     *
     * @author firda
     */
    public class Bola extends MethodAbstract {
        int pi = 22/7;
        int jari = 7;

        public int Volume(){
            return 4/3*pi*jari*jari;
        }
        @Override
        public int LuasSelimut(){
            return 4*pi*jari*jari;
        }
    }
```

```
5   */
6  package BangunRuang;
7
8   /**
9   * 
10  * @author firda
11  */
12 public class Kerucut extends MethodAbstract{
13     int t = 50;
14     int pi = 22/7;
15     int jari = 7;
16     int s = 40;
17
18     @Override
19     ① public int Volume(){
20         return (pi*jari*jari*t)*1/3;
21     }
22     @Override
23     ② public int LuasSelimut(){
24         return pi*jari*s;
25     }
26
27
28 }
```

Output - Module9 (run) X

```
> run:
>     Keliling Segitiga = 31
```

```
4 |     * and open the template in the editor.
5 |     */
6 | package BangunRuang;
7 |
8 | /**
9 | *
10| * @author firda
11| */
12| public class Kubus extends MethodAbstract{
13|     int s = 10;
14|     @Override
15|     public int Volume(){
16|         return s*s*s;
17|     }
18|     @Override
19|     public int LuasSelimut(){
20|         return 6*(s*s);
21|     }
22|
23| }
```

```
4 |     * and open the template in the editor.
5 |     */
6 | package BangunRuang;
7 |
8 | /**
9 | *
10| * @author firda
11| */
12| public class PrismaSegitiga {
13|     int a = 10;
14|     int t = 20;
15|     int tprisma =40;
16|
17|
18|     public int Volume(){
19|         return a*t/2*tprisma;
20|     }
21|     public int LuasSelimut(){
22|         return t*(a+(3*tprisma));
23|     }
24|
25| }
```

```
4 |     /* and open the template in the editor.
5 |     */
6 | package BangunRuang;
7 |
8 | /**
9 | *
10| * @author firda
11| */
12| public class MethodMain {
13|     public static void main(String[] args) {
14|         Balok blk = new Balok();
15|         Bola bla = new Bola();
16|         Kerucut krc = new Kerucut();
17|         Kubus kbs = new Kubus();
18|         PrismaSegitiga ps = new PrismaSegitiga();
19|
20|         System.out.println("Volume Balok = " + blk.Volume());
21|         System.out.println("LuasPermukaan Balok = " + blk.LuasSelimut());
22|         System.out.println("Volume Bola = " + bla.Volume());
23|         System.out.println("LuasPermukaan Bola = " + bla.LuasSelimut());
24|         System.out.println("Volume Kerucut = " + krc.Volume());
25|         System.out.println("LuasPermukaan Kerucut = " + krc.LuasSelimut());
26|         System.out.println("Volume Kubus = " + kbs.Volume());
27|         System.out.println("Luas Permukaankubus = " + kbs.LuasSelimut());
28|         System.out.println("Volume PrismaSegitiga = " + ps.Volume());
29|         System.out.println("Luas Permukaan PrismaSegitiga = " + ps.LuasSelimut());
30|     }
31| }
32|
```

```
run:
Volume Balok = 7920
LuasPermukaan Balok = 2392
Volume Bola = 147
LuasPermukaan Bola = 588
Volume Kerucut = 2450
LuasPermukaan Kerucut = 840
Volume Kubus = 1000
Luas Permukaankubus = 600
Volume PrismaSegitiga = 4000
Luas Permukaan PrismaSegitiga = 2600
BUILD SUCCESSFUL (total time: 0 seconds)
```

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LATIHAN

```
9  * @author firda
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 getKell(){
19         return keliling();
20     }
21 }
22 }
```

```
8  *
9  * @author firda
10 */
11 public class JajarGenjang extends MethodAbstract {
12     int alas = 10;
13     int tinggi = 20;
14     int b = 22;
15     @Override
16     public int luas (){
17         return alas*tinggi;
18     }
19     @Override
20     public int keliling(){
21         return 2*(alas+b);|
22     }
23 }
24 }
```

```
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  /**
7  *
8  * @author firda
9  */
10 public class Lingkaran extends MethodAbstract {
11     int pi = 22/7;
12     int jari = 7;
13     @Override
14     public int luas (){
15         return pi*jari*jari;
16     }
17     @Override
18     public int keliling(){
19         return 2*pi+jari;
20     }
21 }
22 }
```

```
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6
7  /**
8  *
9  * @author firda
10 */
11 public class PersegiPanjang extends MethodAbstract {
12     int panjang = 5;
13     int lebar = 10;
14     @Override
15     public int luas (){
16         return panjang*lebar;
17     }
18     @Override
19     public int keliling(){
20         return 2*panjang+lebar;
21     }
22 }
```

```
4  |     * and open the template in the editor.
5  |     */
6  |
7  |     /**
8  |     *
9  |     * @author firda
10 |     */
11 |    public class Segitiga extends MethodAbstract {
12 |        int alas = 5;
13 |        int tinggi = 10;
14 |        int b = 12;
15 |        int c = 14;
16 |        @Override
17 |        public int luas () {
18 |            return alas*tinggi/2;
19 |        }
20 |        @Override
21 |        public int keliling() {
22 |            return alas+b+c;
23 |        }
24 |
25 |    }
26 |}
```

```
6
7  /**
8  *
9  * @author firda
10 */
11 public class MethodMain {
12     public static void main(String[] args) {
13         Segitiga sgt = new Segitiga();
14         JajarGenjang jg = new JajarGenjang();
15         PersegiPanjang pp = new PersegiPanjang();
16         Lingkaran L = new Lingkaran();
17         System.out.println("Keliling Segitiga = " + sgt.keliling());
18         System.out.println("Luas Segitiga = " + sgt.luas());
19         System.out.println("Keliling JajarGenjang = " + jg.keliling());
20         System.out.println("Luas JajarGenjang = " + jg.luas());
21         System.out.println("Keliling PersegiPanjang = " + pp.keliling());
22         System.out.println("Luas PersegiPanjang = " + pp.luas());
23         System.out.println("Keliling Lingkaran = " + L.keliling());
24         System.out.println("Luas Lingkaran = " + L.luas());
25     }
26 }
27 }
28 }
```

MethodMain > main > L

Output - Module9 (run) X

```
run:
Keliling Segitiga = 31
Luas Segitiga = 25
Keliling JajarGenjang = 64
Luas JajarGenjang = 200
Keliling PersegiPanjang = 20
Luas PersegiPanjang = 50
Keliling Lingkaran = 13
Luas Lingkaran = 147
BUILD SUCCESSFUL (total time: 0 seconds)
```

Ao

SOAL BANGUN RUANG

```
4 |     ^ and open the template in the editor.
5 |
6 |
7 |     /**
8 |     *
9 |     * @author firda
10|     */
11|    public class Segitiga extends MethodAbstract {
12|        int alas = 5;
13|        int tinggi = 10;
14|        int b = 12;
15|        int c = 14;
16|        @Override
17|        public int luas () {
18|            return alas*tinggi/2;
19|        }
20|        @Override
21|        public int keliling() {
22|            return alas+b+c;
23|        }
24|
25|    }
26|}
```

```
5 |     */
6 |     package BangunRuang;
7 |
8 |     /**
9 |     * Luas
10|     *
11|     * @author firda
12|     */
13|     public abstract class MethodAbstract {
14|         public abstract int Volume ();
15|         public abstract int LuasSelimut();
16|         public int getVolume () {
17|             return Volume();
18|         }
19|         public int getSelimut() {
20|             return LuasSelimut();
21|         }
22|     }
23|
24|
25|}
```

```
    */
    package BangunRuang;

    /**
     *
     * @author firda
     */
    public class Balok extends MethodAbstract {
        int p = 18;
        int l = 20;
        int t = 22;
        @Override
        public int Volume(){
            return p*l*t;
        }
        @Override
        public int LuasSelimut(){
            return 2*(p*l+p*t+l*t);
        }
    }
```

```
    */
    package BangunRuang;

    /**
     *
     * @author firda
     */
    public class Bola extends MethodAbstract {
        int pi = 22/7;
        int jari = 7;

        public int Volume(){
            return 4/3*pi*jari*jari;
        }
        @Override
        public int LuasSelimut(){
            return 4*pi*jari*jari;
        }
    }
```

```
5   */
6  package BangunRuang;
7
8   /**
9   * 
10  * @author firda
11  */
12 public class Kerucut extends MethodAbstract{
13     int t = 50;
14     int pi = 22/7;
15     int jari = 7;
16     int s = 40;
17
18     @Override
19     ① public int Volume(){
20         return (pi*jari*jari*t)*1/3;
21     }
22     @Override
23     ② public int LuasSelimut(){
24         return pi*jari*s;
25     }
26
27
28 }
```

Output - Module9 (run) X

```
> run:
>     Keliling Segitiga = 31
```

```
4 |     * and open the template in the editor.
5 |     */
6 | package BangunRuang;
7 |
8 | /**
9 | *
10| * @author firda
11| */
12| public class Kubus extends MethodAbstract{
13|     int s = 10;
14|     @Override
15|     public int Volume(){
16|         return s*s*s;
17|     }
18|     @Override
19|     public int LuasSelimut(){
20|         return 6*(s*s);
21|     }
22|
23| }
```

```
4 |     * and open the template in the editor.
5 |     */
6 | package BangunRuang;
7 |
8 | /**
9 | *
10| * @author firda
11| */
12| public class PrismaSegitiga {
13|     int a = 10;
14|     int t = 20;
15|     int tprisma =40;
16|
17|
18|     public int Volume(){
19|         return a*t/2*tprisma;
20|     }
21|     public int LuasSelimut(){
22|         return t*(a+(3*tprisma));
23|     }
24|
25| }
```

```
4 |     /* and open the template in the editor.
5 |     */
6 | package BangunRuang;
7 |
8 | /**
9 | *
10| * @author firda
11| */
12| public class MethodMain {
13|     public static void main(String[] args) {
14|         Balok blk = new Balok();
15|         Bola bla = new Bola();
16|         Kerucut krc = new Kerucut();
17|         Kubus kbs = new Kubus();
18|         PrismaSegitiga ps = new PrismaSegitiga();
19|
20|         System.out.println("Volume Balok = " + blk.Volume());
21|         System.out.println("LuasPermukaan Balok = " + blk.LuasSelimut());
22|         System.out.println("Volume Bola = " + bla.Volume());
23|         System.out.println("LuasPermukaan Bola = " + bla.LuasSelimut());
24|         System.out.println("Volume Kerucut = " + krc.Volume());
25|         System.out.println("LuasPermukaan Kerucut = " + krc.LuasSelimut());
26|         System.out.println("Volume Kubus = " + kbs.Volume());
27|         System.out.println("Luas Permukaankubus = " + kbs.LuasSelimut());
28|         System.out.println("Volume PrismaSegitiga = " + ps.Volume());
29|         System.out.println("Luas Permukaan PrismaSegitiga = " + ps.LuasSelimut());
30|     }
31| }
32|
```

```
run:
Volume Balok = 7920
LuasPermukaan Balok = 2392
Volume Bola = 147
LuasPermukaan Bola = 588
Volume Kerucut = 2450
LuasPermukaan Kerucut = 840
Volume Kubus = 1000
Luas Permukaankubus = 600
Volume PrismaSegitiga = 4000
Luas Permukaan PrismaSegitiga = 2600
BUILD SUCCESSFUL (total time: 0 seconds)
```

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Tugas 10.3

```
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 javaapplication14;
7
8 /**
9 *
10 * @author firda
11 */
12 public interface ActivityLampu {
13     public static final int LAMPU_HIDUP=1;
14     public static final int LAMPU_MATI=0;
15     public static final int LAMPU_REDUP=2;
16     public abstract void matikanLampu();
17     public abstract void hidupkanLampu();
18     public abstract void redupkanLampu();
19 }
20
```

```
10 | * @author firda
11 | */
12 | public class Lampu implements ActivityLampu {
13 |     public int statusLampu;
14 |
15 |     public void matikanLampu(){
16 |         if(statusLampu==0){
17 |             System.out.println("Lampu sudah dalam kondisi mati");
18 |         }
19 |         else if (statusLampu==1){
20 |             statusLampu=-1;
21 |             System.out.println("Lampu Sudah dimatikan");
22 |         }
23 |     }
24 |
25 |     public void hidupkanLampu(){
26 |         if (statusLampu==1){
27 |             System.out.println("Lampu sudah dinyalakan\n***");
28 |         }
29 |         else {
30 |             statusLampu+=1;
31 |             System.out.println("Lampu sudah dalam kondisi nyala");
32 |         }
33 |
34 |     public void redupkanLampu(){
35 |         if (statusLampu==2){
36 |             System.out.println("Lampu Sudah direduakan");
37 |         }
38 |     }
39 |     public int setSaklar (int saklar){
40 |         return statusLampu = saklar;
41 |     }
42 | }
```

Output - JavaApplication14 (run) ×

```
run:
Status Lampu = 0
ketikkan
2 untuk meredupkan lampu
1 untuk menyalaikan
0 untuk mematikan lampu
2
Lampu Sudah direduakan
BUILD SUCCESSFUL (total time: 5 seconds)
```

The screenshot shows a Java development environment with the following details:

- Code Editor:** The main window displays a Java class named `TugasMain`. The code initializes a `Lampu` object, reads user input from a `Scanner`, and calls methods like `statusLampu`, `setSaklar`, `matikanLampu`, `hidupkanLampu`, and `redupkanLampu`.
- Output Window:** The bottom window shows the terminal output:

```
TUMI
Status Lampu = 0
ketikkan
2 untuk meredupkan lampu
1 untuk menyalaikan
0 untuk mematikan lampu
2
Lampu Sudah diredukan
BUILD SUCCESSFUL (total time: 5 seconds)
```

Nama : Firdaus Aulia Faza

NIM : L200180042

```
8
9
10  /*
11   * @author firda
12   */
13
14  public class NestedClass {
15      String nama ="Firdaus Aulia Faza";
16      String nim ="L200180042";
17
18  public void printNama(){
19      System.out.println(nama+" : "+nim);
20  }
21  static class StaticNestedClass{
22      static String jurusan ="Informatika";
23      public void methodnama(){
24          NestedClass nested = new NestedClass();
25          nested.printNama();
26      }
27  }
28
29  class InnerClass {
30      public void Jurusan(){
31          NestedClass.StaticNestedClass nested = new NestedClass.StaticNestedClass();
32          System.out.println(nested.jurusan);
33      }
34  }
35
36
37
```

```
6 package javaapplication16;
7
8 /**
9 *
10 * @author firda
11 */
12 public class Mainan {
13     public static void main(String[] args) {
14         NestedClass nest = new NestedClass();
15         InnerClass inn = new InnerClass();
16         nest.printNama();
17         inn.Jurusana();
18     }
19 }
20 }
```



Output - JavaApplication16 (run) X

```
run:
Firdaus Aulia Fasa : L200180042
Informatika
BUILD SUCCESSFUL (total time: 0 seconds)
```



NAMA : FIRDAUS AULIA FAZA

NIM : L200180042

