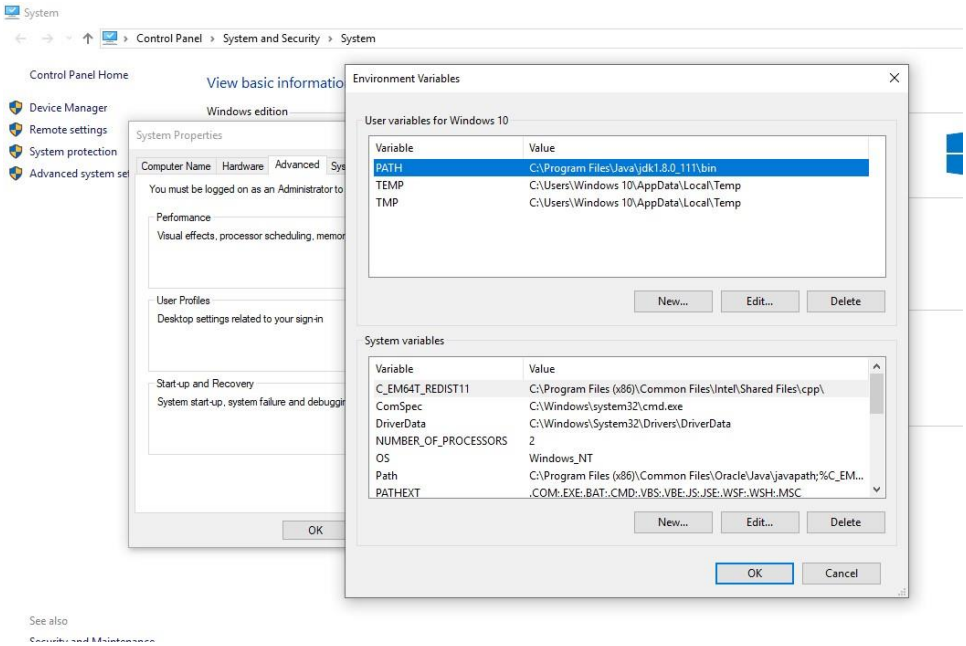
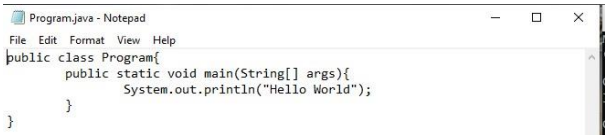
Nama : Firdaus Aulia Faza

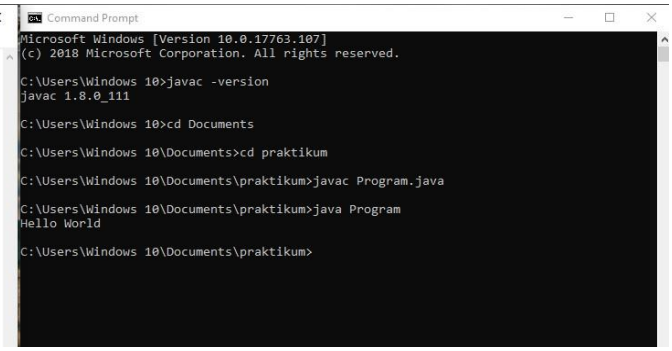
NIM : L200180042

Menampilkan jika path sudah terpasang:



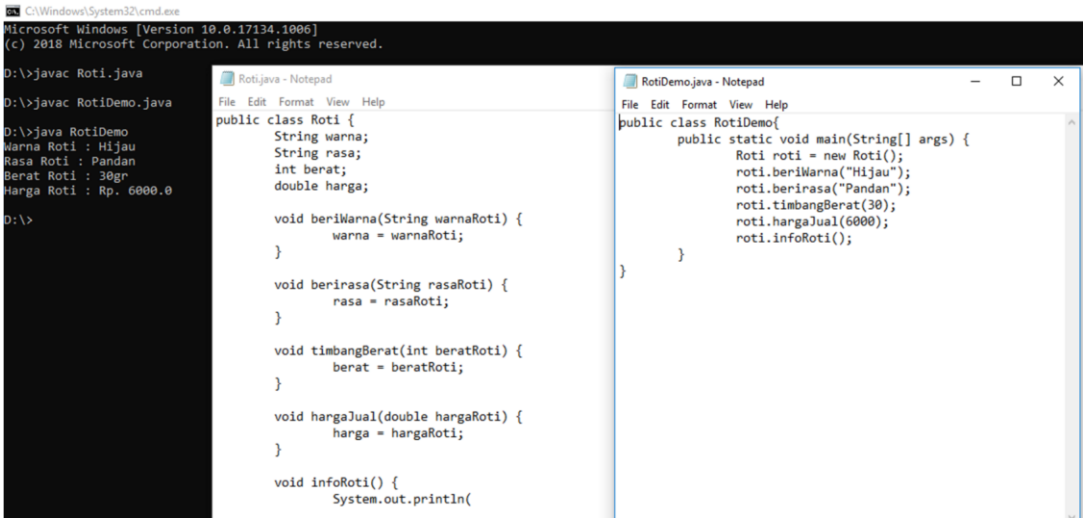
Hasil Praktikum Modul ke 1

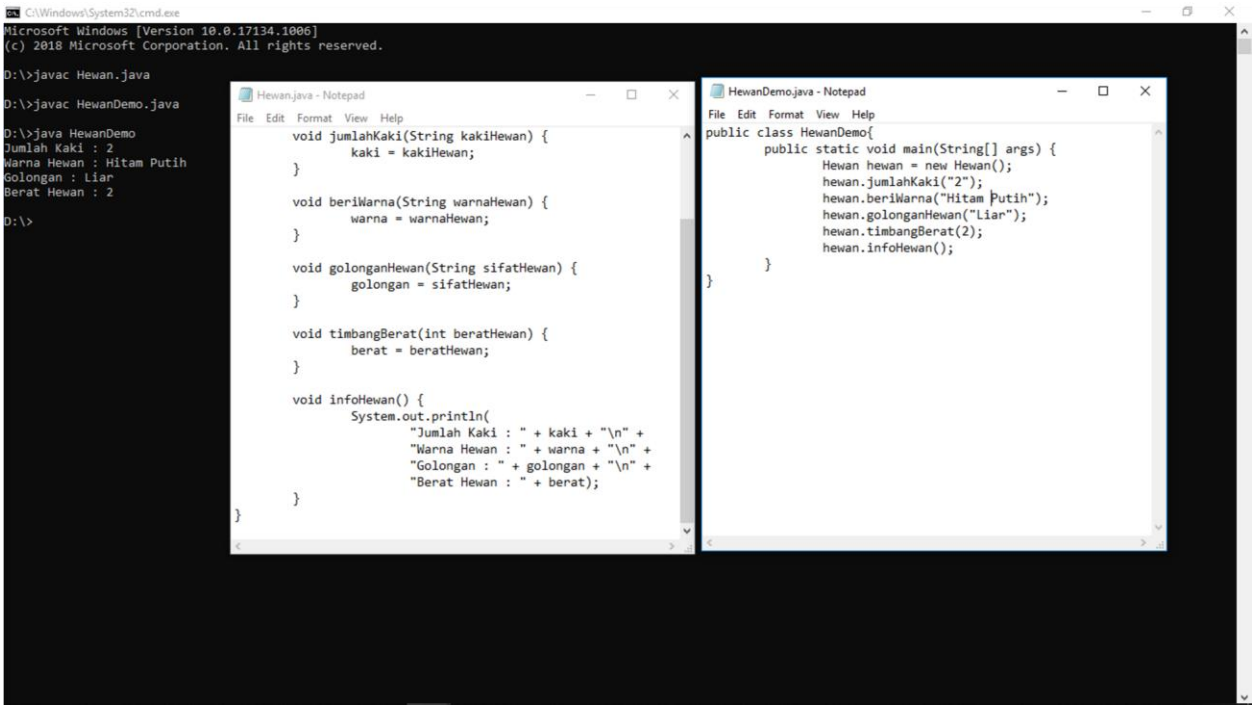


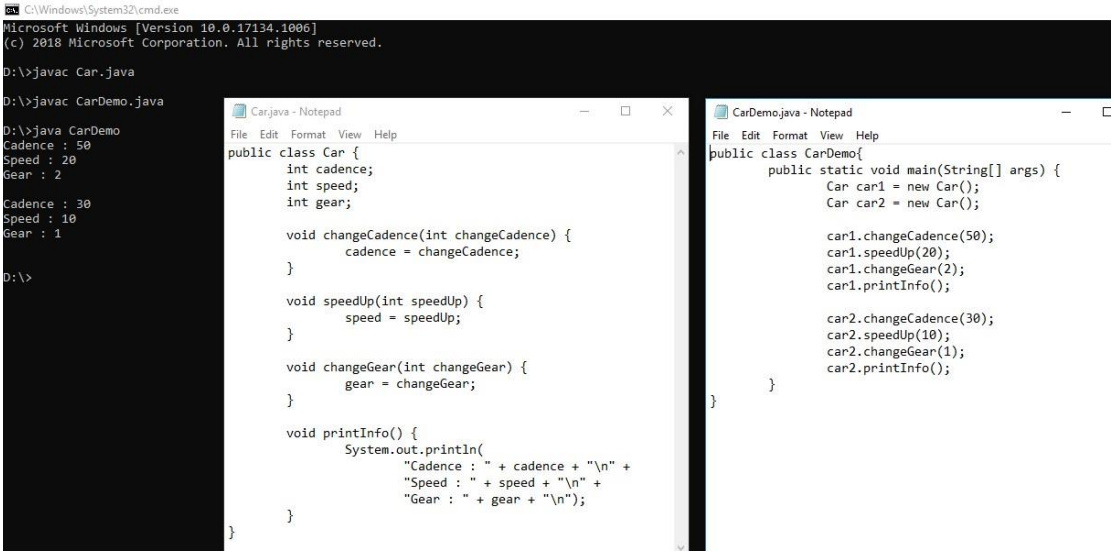


Nama : Firdaus Aulia Faza

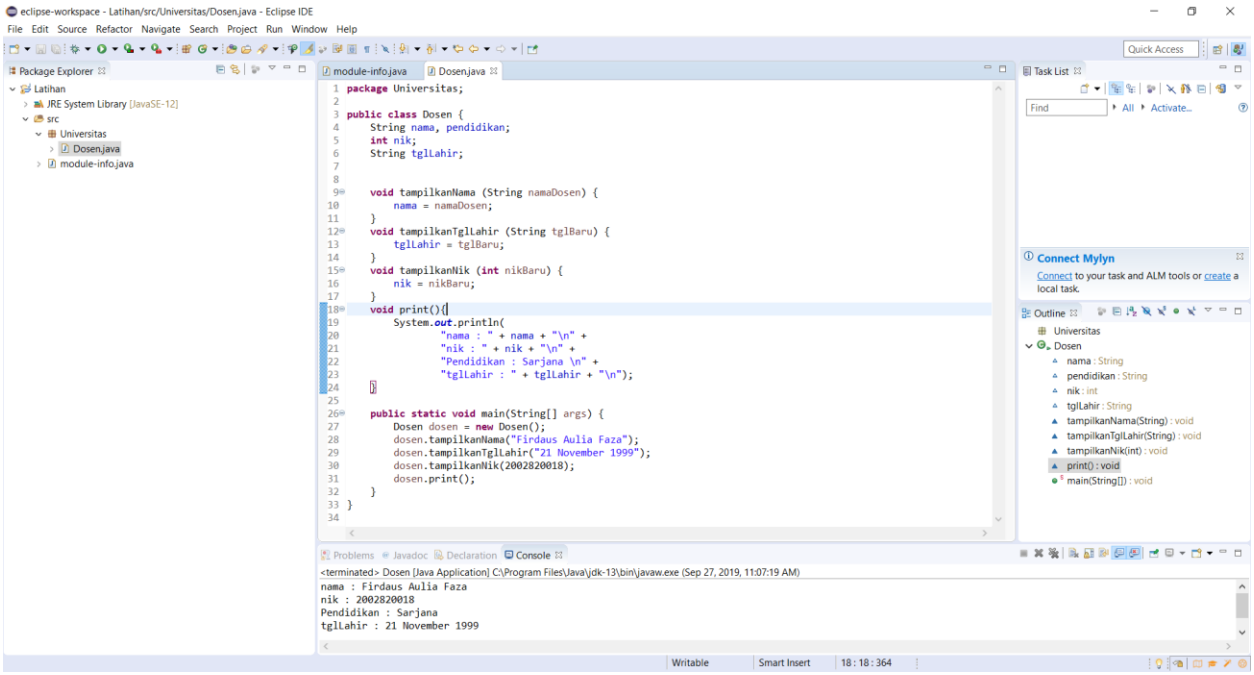
NIM : L200180042



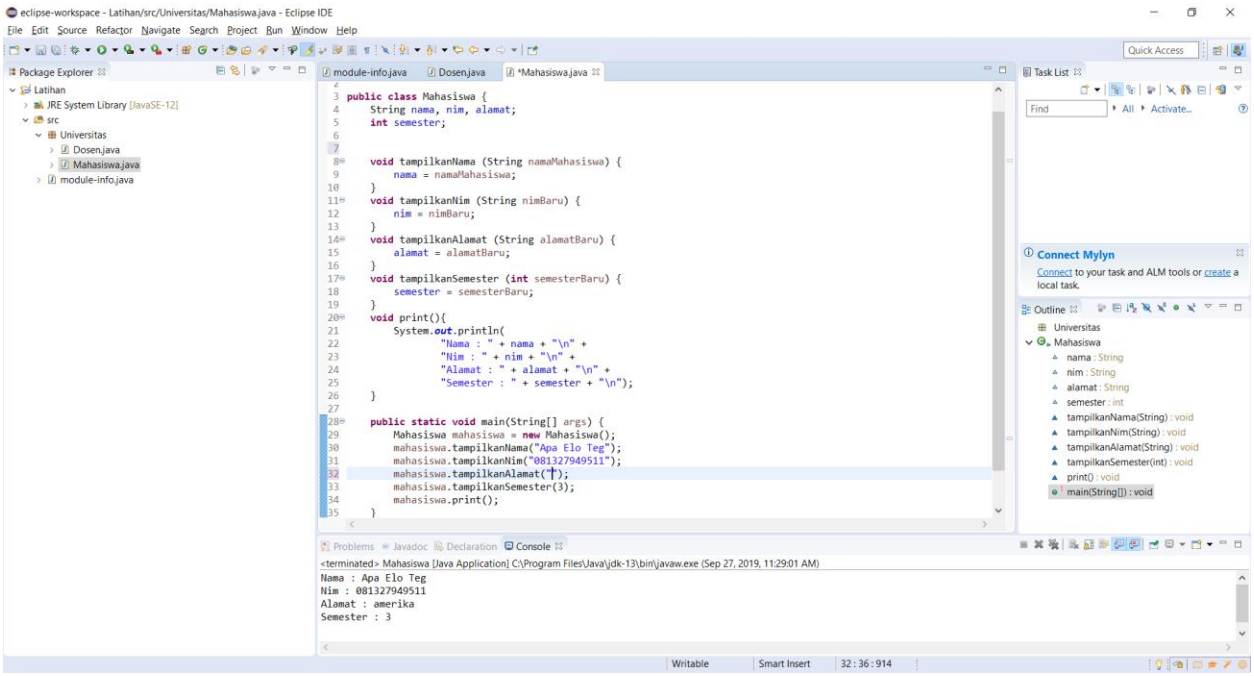



C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.17134.1006]
(c) 2018 Microsoft Corporation. All rights reserved.
D:\>javac Car.java
D:\>javac CarDemo.java
D:\>java CarDemo
Cadence : 50
Speed : 20
Gear : 2
Cadence : 30
Speed : 10
Gear : 1
D:\>
Car.java - Notepad
File Edit Format View Help
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();
}
}

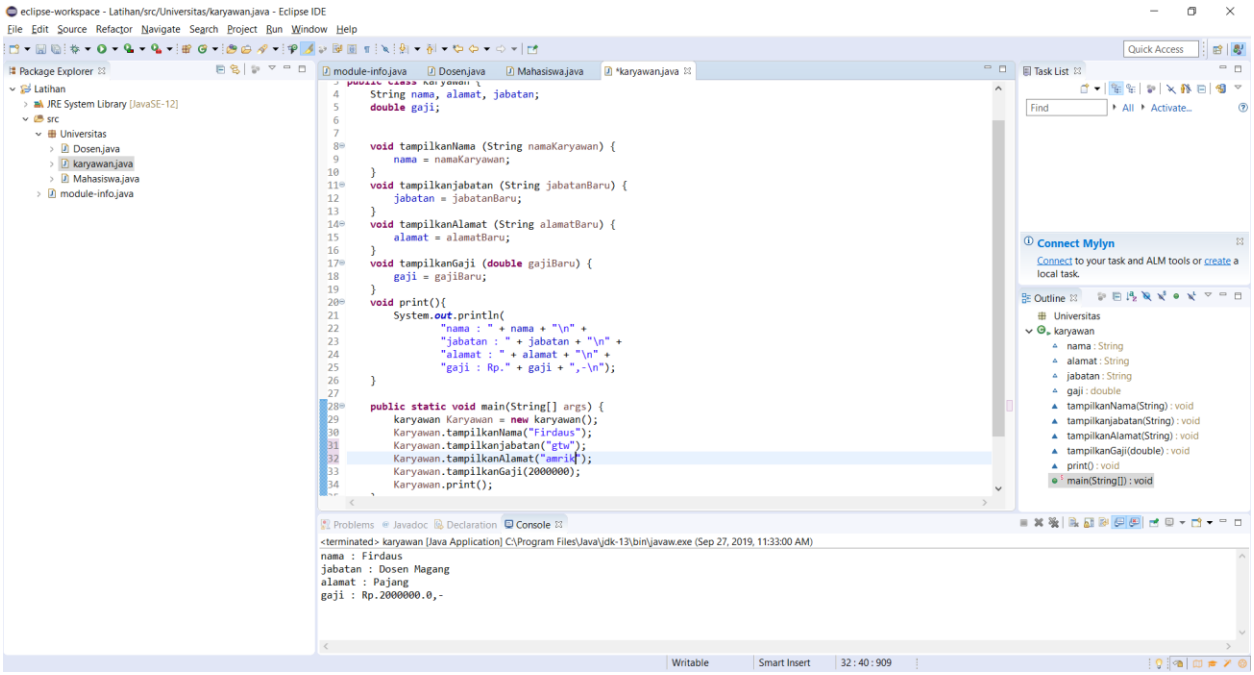
DOSEN



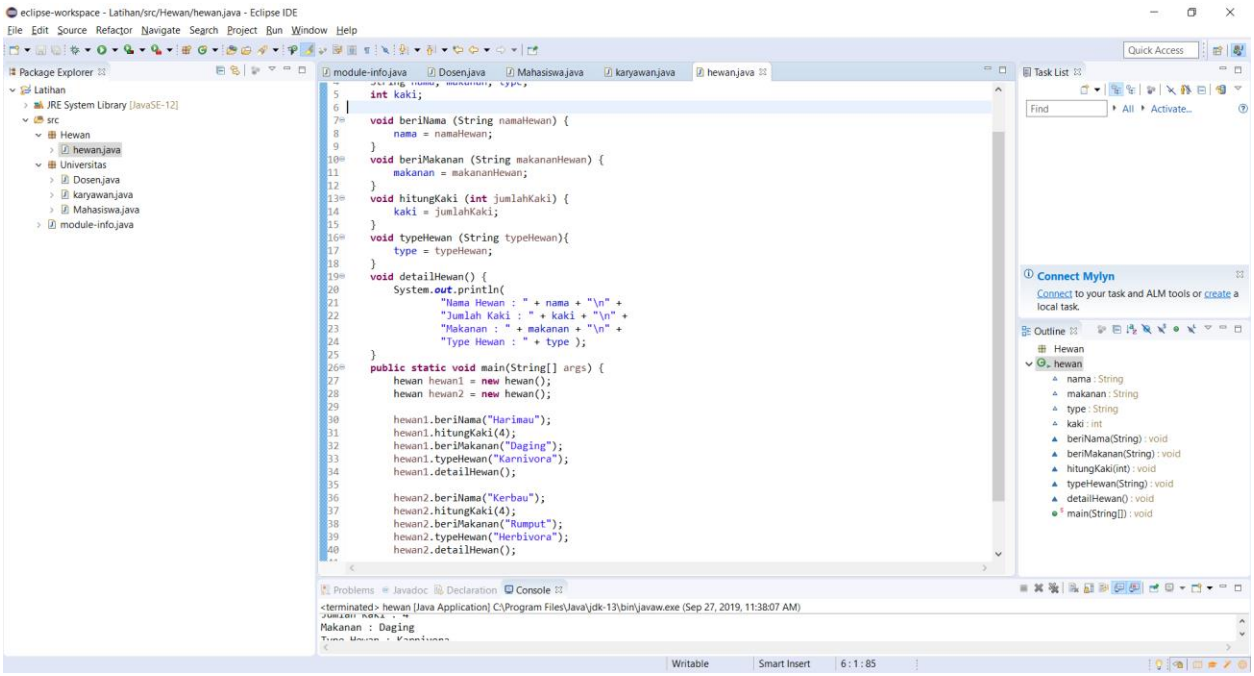
MAHASISWA



KARYAWAN



HEWAN



Praktikum 4

Nama : Firdaus Aulia Faza

NIM : L200180042

Kelas : B

Private Modifier

PrivateModifier.java

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

PrivateModifierDemo.java

```
1
2  public class PrivateModifierDemo {
3      public static void main(String[] args) {
4          PrivateModifier PMD = new PrivateModifier();
5          PMD.printinfo();
6          PMD.nama();
7          PMD.umur();
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
2  public class DefaultModifier {
3      int a = 1;
4      int b = 2;
5      int c;
6
7      void jumlah () {
8          c = a + b;
9          System.out.println(c);
10
11     }
12 }
13
```

DefaultModifierDemo.java

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

ProtectedModifier.java

```
1
2  public class ProtectedModifier {
3      protected void printInfo() {
4          System.out.println("Protected Modifier");
5      }
6
7      protected void sendMessage() {
8          System.out.println("This Is a Message");
9      }
10 }
11
```

ProtectedModifierDemo.java

```
1
2  public class ProtectedModifierDemo {
3      public static void main(String[] args) {
4      ProtectedModifier p = new ProtectedModifier();
5      p.printInfo();
6      p.sendMessage();
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

PublicModifier.java

```
1
2  public class PublicModifier {
3      public int a = 2;
4      public int b = 5;
5      public int c = 9;
6      public void kali() {
7          int d = a*b*c;
8          System.out.println("Hasil Kali = " + d);
9      }
10 }
11
```

PublicModifierDemo.java

```
1
2  public class PublicModifierDemo {
3      public static void main (String[] args) {
4          PublicModifier PMD = new PublicModifier();
5              PMD.kali();
6
7      }
8  }
9
```

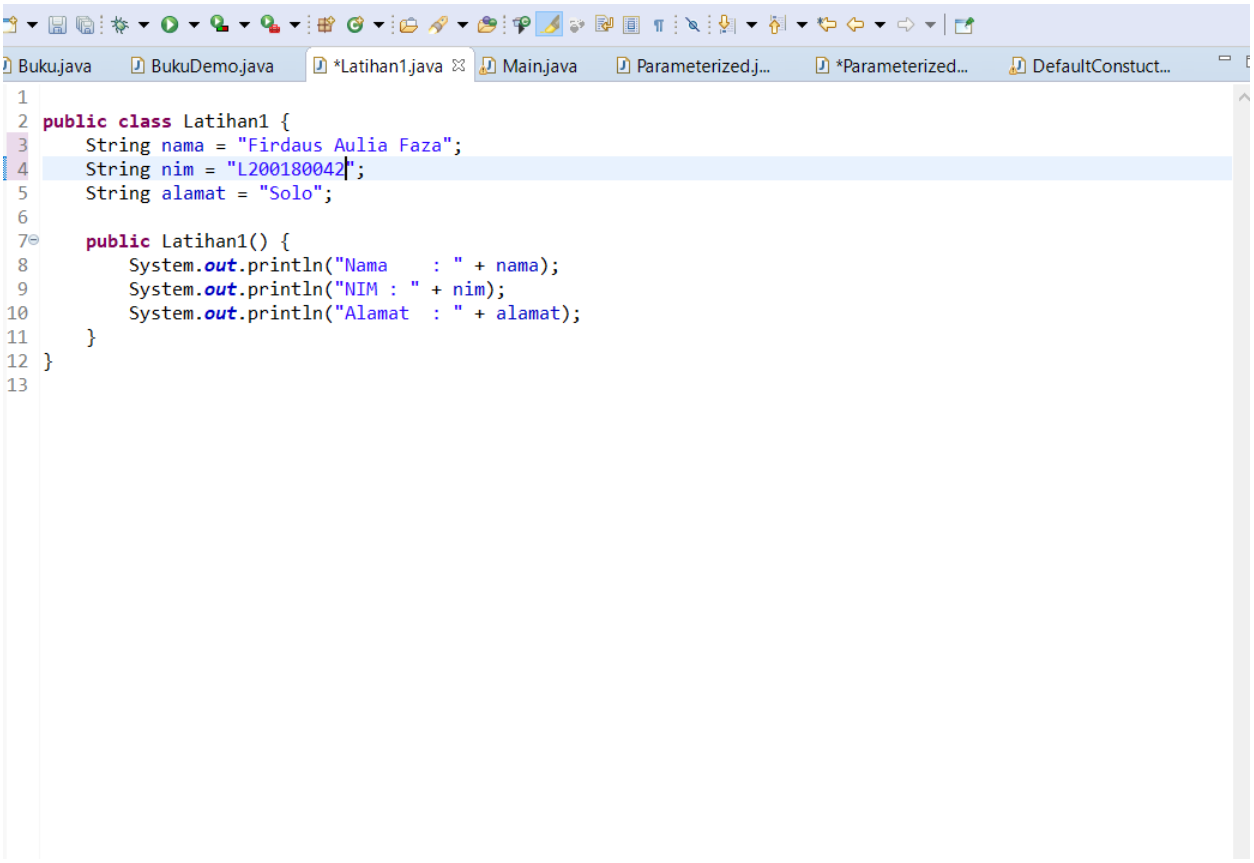
Problems Javadoc Declaration Console

```
<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


Buku.java
BukuDemo.java
*Latihan1.java
Main.java
Parameterized.j...
*Parameterized...
DefaultConstuct...
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

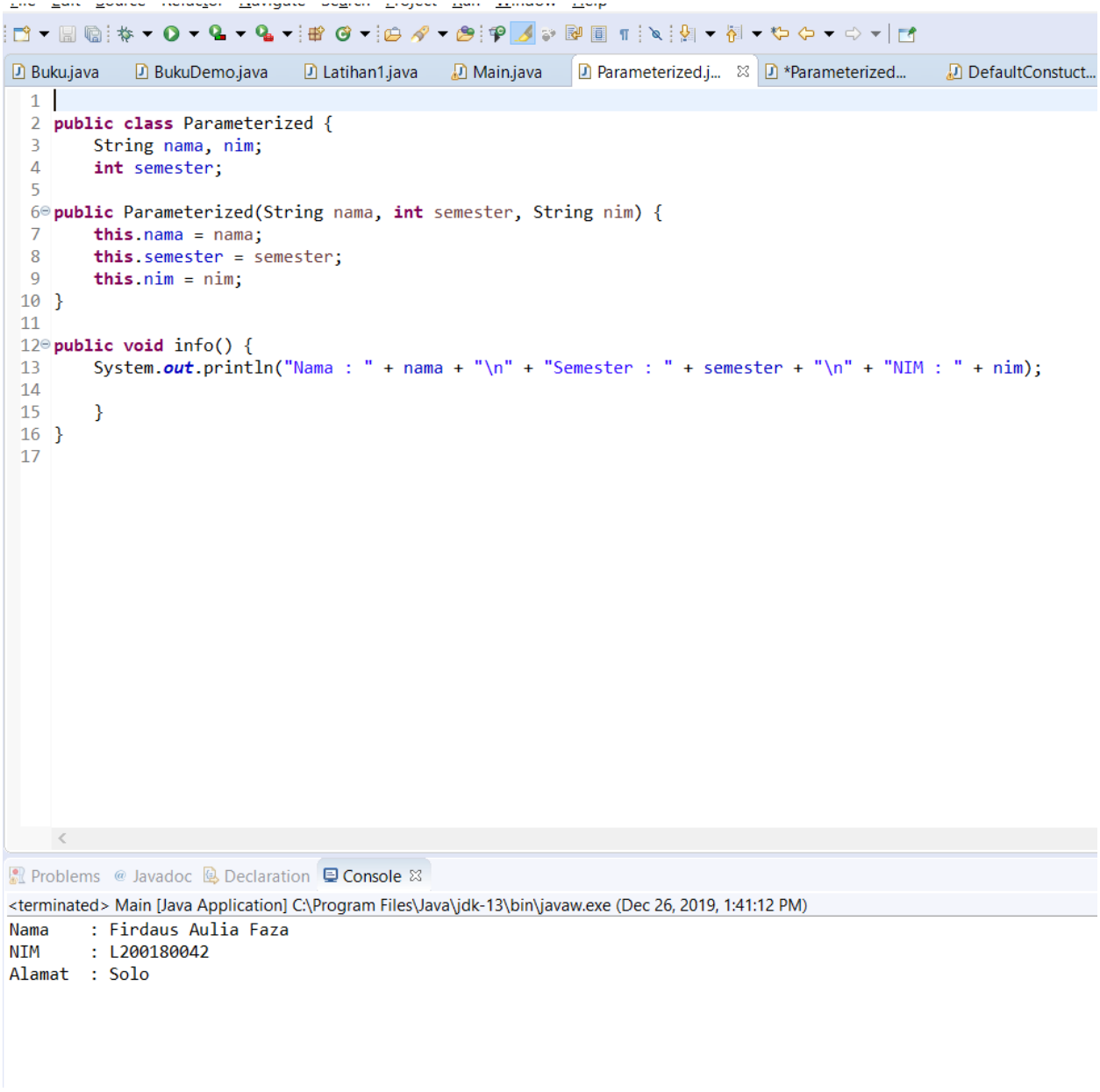
Buku.java | BukuDemo.java | Latihan1.java | Main.java | Parameterized.j... | *Parameterized... | DefaultCor

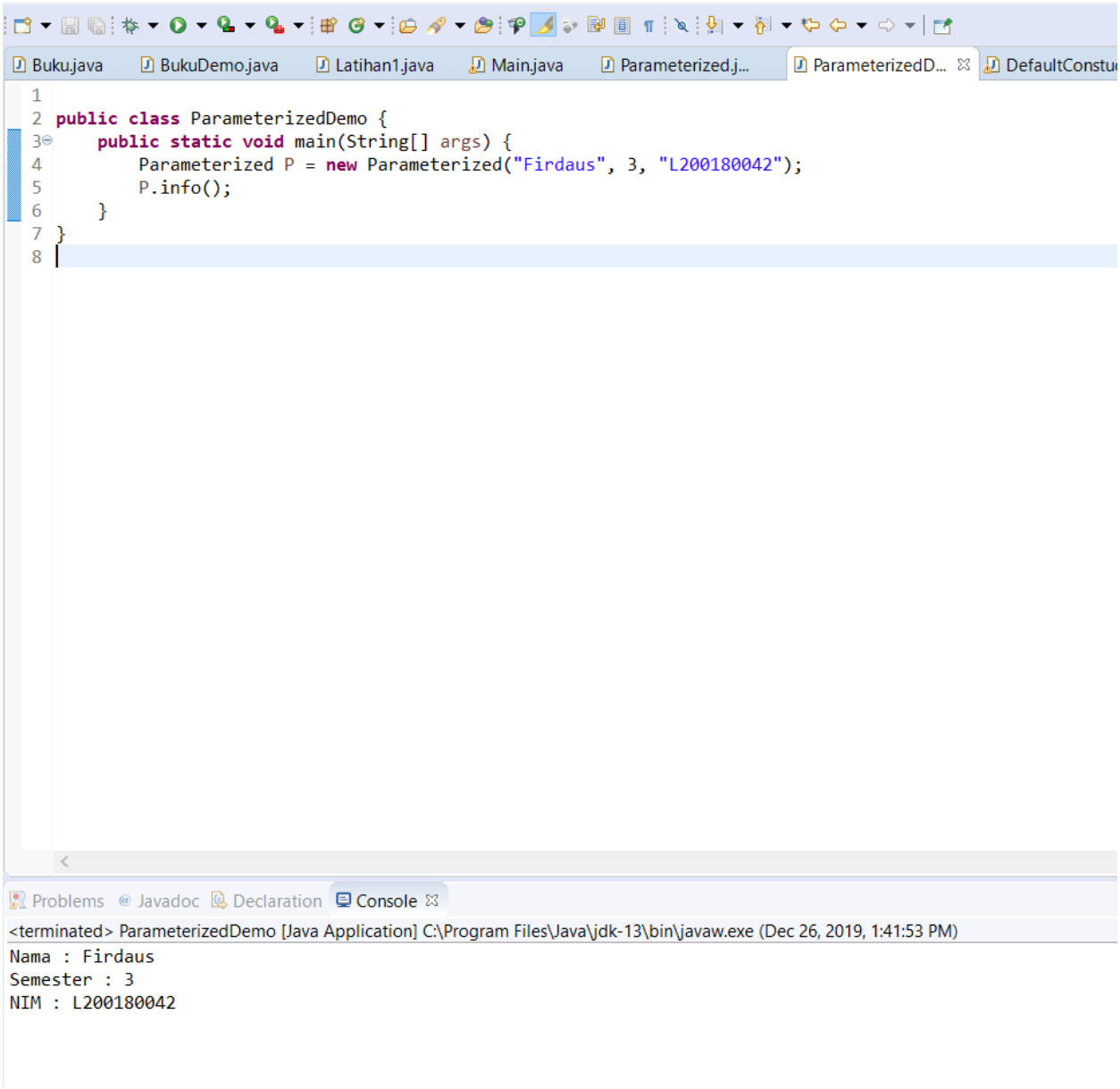
```
1
2  public class Main {
3      public static void main(String[] args) {
4          Latihan1 K = new Latihan1();
5      }
6
7  }
8
```

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
```


Buku.java
BukuDemo.java
Latihan1.java
Main.java
Parameterized.j...
*Parameterized...
DefaultConstuct...
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


Buku.java
BukuDemo.java
Latihan1.java
Main.java
Parameterized.j...
ParameterizedD...
DefaultConstu
1
2 public class ParameterizedDemo {
3 public static void main(String[] args) {
4 Parameterized P = new Parameterized("Firdaus", 3, "L200180042");
5 P.info();
6 }
7 }
8
Problems
Javadoc
Declaration
Console
<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

Buku.java | BukuDemo.java | Latihan1.java | Main.java | Parameterized.j... | ParameterizedD... | DefaultConstuc

```java

public class DefaultConstuctor {
    public DefaultConstuctor() {
        System.out.println("Default Constructor");
    }

    public static void main (String[] args) {
        DefaultConstuctor a = new DefaultConstuctor();
    }
}

```

```java
 */
public class Buku {
 public String namaPengarang ;
 public String judulBuku ;
 public int tahunTerbit;
 public int cetakanKe;
 public double hargaJual;
public Buku (String namaPengarang, String judulBuku, int tahunTerbit, int cetakanKe, double hargaJual)
    this.namaPengarang = namaPengarang;
    this.judulBuku = judulBuku;
    this.tahunTerbit = tahunTerbit;
    this.cetakanKe = cetakanKe;
    this.hargaJual = hargaJual;
}
    public void print (){
    System.out.println ("Nama Pengarang = " + namaPengarang);
    System.out.println("Judul = " + judulBuku );
    System.out.println("Tahun Terbit = " + tahunTerbit);
    System.out.println("CetakanKe = " + cetakanKe);
    System.out.println("Harga jual = " + hargaJual);
}

    public static void main(String[] args) {
        Buku buku1 = new Buku("Resky", "Kisah seorang bapuk,", 2, 3, 200000);
        Buku buku2 = new Buku ("Andrea", "Advance", 2001, 2, 30000);
        Buku buku3 = new Buku ("Terra", "Your Name", 2010, 3, 12000);
        Buku buku4 = new Buku ("Accelerator", "My Name", 2002, 3, 1);
        Buku buku5 = new Buku ("Mikoto", "World", 2017, 1, 0);
        Buku buku6 = new Buku ("test", "Domination", 2018, 1, 111111);
        Buku buku7 = new Buku ("test2", "For You", 2019, 2, 100000);
        Buku buku8 = new Buku ("Kampret", "After Dark", 2000, 3, 100000);
```

```
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 buku1 = 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          buku1.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  }
56  }
```

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

BangunDatar.... | Persegi.java | Segitiga.java | SegitigaSam... | SegitigaSam...

```java
package Tugas;

public class BangunDatar {
    protected double luas;
    protected double keliling;

    protected void hitungKeliling() {
        System.out.println(keliling);

    }

    protected void hitungLuas() {
        System.out.println(luas);

    }

    public static void main(String[] args) {
        Persegi cetak1 = new Persegi();
        cetak1.keliling();
        cetak1.luas();

        PersegiPanjang cetak2 = new PersegiPanjang();
        cetak2.luas();
        cetak2.keliling();

    }

}
```

Persegi

Persegi.java | PersegiPanj... | Segitiga.java | SegitigaSam... | SegitigaSam...

```java
package Tugas;

public class Persegi extends BangunDatar{
    protected double sisi = 30;

    void luas() {
        luas = sisi*sisi;
        System.out.println("Luas Persegi Trifect : " + luas );
    }
    void keliling() {
        keliling = 2*(sisi+sisi);
        System.out.println("Keliling Trifect : " + keliling);
    }
}

```

Persegi Panjang

BangunDatar.java | Persegi.java | PersegiPanjang.java | Segitiga.java | SegitigaSamaKaki.java | SegitigaSamaSisi.java

```java
package Tugas;

public class PersegiPanjang extends BangunDatar{
    protected int panjang = 1000;
    protected double lebar = 1000;

    void luas() {
        luas = panjang*lebar;
        System.out.println("Luas Persegi Panjang Trifect : " + luas);
    }

    void keliling() {
        keliling = 2*(panjang + lebar);
        System.out.println ("Keliling Persegi Panjang Trifect : " + keliling);
    }

}

```

Segitiga

BangunDatar.java | Persegi.java | PersegiPanjang.java | Segitiga.java

```java
package Tugas;

public class Segitiga extends BangunDatar{
    protected double alas;

}

```

Segitiga Sama Kaki

BangunDatar.java | Persegi.java | PersegiPanjang.java | Segitiga.java | SegitigaSamaKaki.java | SegitigaSamaSisi.java

```java
package Tugas;

public class SegitigaSamaKaki extends Segitiga {
    protected double sisiMiring;
}

```

Segitiga Sama Sisi

BangunDatar.java | Persegi.java | PersegiPanjang.java | Segitiga.java | SegitigaSamaKaki.java | SegitigaSamaSisi.java

```java
package Tugas;

public class SegitigaSamaSisi extends Segitiga {
    protected double sisi;
}

```

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

```java
package Latihan;

public class Karyawan {
    protected String nama;
    protected float gaji;
    protected int usia;

    public String getNama() {
        return nama;
    }
    public void setNama(String nama) {
        this.nama = nama;
    }
    public float getGaji() {
        return gaji;
    }
    public void setGaji(float gaji) {
        this.gaji = gaji;
    }
    public int getUsia() {
        return usia;
    }
    public void setUsia (int usia) {
            this.usia = usia;
    }
}
```

```java
package Latihan;

public class KaryawanDemo {
    public static void main (String[] args) {
        Karyawan K1 = new Karyawan();
        K1.setNama("Kampret");
        K1.setUsia(21);

        System.out.println(K1.getNama());
        System.out.println(K1.getGaji());
        System.out.println(K1.getUsia());
    }
}
```

Latihan.KaryawanDemo > main >

Output - Modul 7 (run)

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

```java
package Latihan;

public class Manager extends Karyawan {
    private float jamKerja = 7.5f;
    public String alamat;


    public float getJamKerja() {
        return jamKerja;
    }
    public void setJamKerja(float jamKerja) {
        this.jamKerja = jamKerja;
    }
    public float getgajiManager() {
        return 2 * getGaji();
    }
    public String getAlamat() {
        return alamat;
    }
    public void setAlamat(String alamat) {
        this.alamat = alamat;
    }
}

```

Output - Modul 7 (run)

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

```java

public class ManagerDemo {
    public static void main (String[] args) {
        Manager M1 = new Manager();
        M1.setNama("Wewa");
        M1.setGaji(500000);
        M1.setUsia(25);
        M1.setJamKerja((float) 8.5);
        M1.setAlamat("Solo");

        System.out.println(M1.getNama());
        System.out.println(M1.getGaji());
        System.out.println(M1.getUsia());
        System.out.println(M1.getAlamat());
        System.out.println(M1.getJamKerja());
    }
}

```

Latihan.ManagerDemo > main >

tput - Modul 7 (run) ×

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

Nama : Firdaus Aulia Faza

NIM : L200180042

LATIHAN

```
 * @author firda
 */
public abstract class MethodAbstract {
    public abstract int luas ();
    public abstract int keliling();

    public int getLuas (){
        return luas();
    }
    public int getKell(){
        return keliling();

    }
}
```

```
 *
 * @author firda
 */
public class JajarGenjang extends MethodAbstract {
    int alas = 10;
    int tinggi = 20;
    int b = 22;
    @Override
    public int luas (){
        return alas*tinggi;
    }
    @Override
    public int keliling(){
        return 2*(alas+b);
}
}
```

```java
/*
 * 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.
 */

/**
 *
 * @author firda
 */
public class Lingkaran extends MethodAbstract {
    int pi = 22/7;
    int jari = 7;
    @Override
    public int luas (){
        return pi*jari*jari;
    }
    @Override
    public int keliling(){
        return 2*pi+jari;
    }
}
```

```java
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author firda
 */
public class PersegiPanjang extends MethodAbstract {
    int panjang = 5;
    int lebar = 10;
    @Override
    public int luas (){
        return panjang*lebar;
    }
    @Override
    public int keliling(){
        return 2*panjang+lebar;
    }
}
```

```
 * and open the template in the editor.
 */

/**
 *
 * @author firda
 */
public class Segitiga extends MethodAbstract {
    int alas = 5;
    int tinggi = 10;
    int b = 12;
    int c = 14;
    @Override
    public int luas (){
        return alas*tinggi/2;
    }
    @Override
    public int keliling(){
        return alas+b+c;
}

}
```

```java
/**
 *
 * @author firda
 */
public class MethodMain {
    public static void main(String[] args) {
        Segitiga sgt = new Segitiga();
        JajarGenjang jg = new JajarGenjang();
        PersegiPanjang pp = new PersegiPanjang();
        Lingkaran L = new Lingkaran();
        System.out.println("Keliling Segitiga = " + sgt.keliling());
        System.out.println("Luas Segitiga = " + sgt.luas());
        System.out.println("Keliling JajarGenjang = " + jg.keliling());
        System.out.println("Luas JajarGenjang = " + jg.luas());
        System.out.println("Keliling PersegiPanjang = " + pp.keliling());
        System.out.println("Luas PersegiPanjang = " + pp.luas());
        System.out.println("Keliling Lingkaran = " + L.keliling());
        System.out.println("Luas Lingkaran = " + L.luas());
    }

}
```

MethodMain > main > L >

Output - Module9 (run)

```
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

```
 * and open the template in the editor.
 */

/**
 *
 * @author firda
 */
public class Segitiga extends MethodAbstract {
    int alas = 5;
    int tinggi = 10;
    int b = 12;
    int c = 14;
    @Override
    public int luas (){
        return alas*tinggi/2;
    }
    @Override
    public int keliling(){
        return alas+b+c;
}

}
```

```
 */
package BangunRuang;

/**Luas
 *
 * @author firda
 */
public abstract class MethodAbstract {
    public abstract int Volume ();
    public abstract int LuasSelimut();

    public int getVolume (){
        return Volume();
    }
    public int getSelimut(){
        return LuasSelimut();
    }
}
```

```java
 */
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);
    }

}
```

```java
 */
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;
    }
}
```

```java
 */
package BangunRuang;

/**
 *
 * @author firda
 */
public class Kerucut extends MethodAbstract{
    int t = 50;
    int pi = 22/7;
    int jari = 7;
    int s = 40;

    @Override
    public int Volume(){
        return (pi*jari*jari*t)*1/3;
}
    @Override
    public int LuasSelimut(){
        return pi*jari*s;
    }


}
```

utput - Module9 (run)

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

```
 * and open the template in the editor.
 */
package BangunRuang;

/**
 *
 * @author firda
 */
public class Kubus extends MethodAbstract{
    int s = 10;
    @Override
    public int Volume(){
        return s*s*s;
}
    @Override
    public int LuasSelimut(){
        return 6*(s*s);
    }

}
```

```
 * and open the template in the editor.
 */
package BangunRuang;

/**
 *
 * @author firda
 */
public class PrismaSegitiga {
    int a = 10;
    int t = 20;
    int tprisma =40;


    public int Volume(){
        return a*t/2*tprisma;
}
    public int LuasSelimut(){
        return t*(a+(3*tprisma));
    }

}
```

```java
 * and open the template in the editor.
 */
package BangunRuang;

/**
 *
 * @author firda
 */
public class MethodMain {
    public static void main(String[] args) {
        Balok blk = new Balok();
        Bola bla = new Bola();
        Kerucut krc = new Kerucut();
        Kubus kbs = new Kubus();
        PrismaSegitiga ps = new PrismaSegitiga();

        System.out.println("Volume Balok = " + blk.Volume());
        System.out.println("LuasPermukaan Balok = " + blk.LuasSelimut());
        System.out.println("Volume Bola = " + bla.Volume());
        System.out.println("LuasPermukaan Bola = " + bla.LuasSelimut());
        System.out.println("Volume Kerucut = " + krc.Volume());
        System.out.println("LuasPermukaan Kerucut = " + krc.LuasSelimut());
        System.out.println("Volume Kubus = " + kbs.Volume());
        System.out.println("Luas Permukaankubus = " + kbs.LuasSelimut());
        System.out.println("Volume PrismaSegitiga = " + ps.Volume());
        System.out.println("Luas Permukaan PrismaSegitiga = " + ps.LuasSelimut());
    }
}

```

BangunRuang.MethodMain > main >

Output - Module9 (run)

```
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)
```

Nama : Firdaus Aulia Faza

NIM : L200180042

LATIHAN

```
 * @author firda
 */
public abstract class MethodAbstract {
    public abstract int luas ();
    public abstract int keliling();

    public int getLuas (){
        return luas();
    }
    public int getKell(){
        return keliling();

    }
}
```

```
 *
 * @author firda
 */
public class JajarGenjang extends MethodAbstract {
    int alas = 10;
    int tinggi = 20;
    int b = 22;
    @Override
    public int luas (){
        return alas*tinggi;
    }
    @Override
    public int keliling(){
        return 2*(alas+b);
}
}
```

```java
/*
 * 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.
 */

/**
 *
 * @author firda
 */
public class Lingkaran extends MethodAbstract {
    int pi = 22/7;
    int jari = 7;
    @Override
    public int luas (){
        return pi*jari*jari;
    }
    @Override
    public int keliling(){
        return 2*pi+jari;
    }
}
```

```java
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author firda
 */
public class PersegiPanjang extends MethodAbstract {
    int panjang = 5;
    int lebar = 10;
    @Override
    public int luas (){
        return panjang*lebar;
    }
    @Override
    public int keliling(){
        return 2*panjang+lebar;
    }
}
```

```
 * and open the template in the editor.
 */

/**
 *
 * @author firda
 */
public class Segitiga extends MethodAbstract {
    int alas = 5;
    int tinggi = 10;
    int b = 12;
    int c = 14;
    @Override
    public int luas (){
        return alas*tinggi/2;
    }
    @Override
    public int keliling(){
        return alas+b+c;
}

}
```

```java
/**
 *
 * @author firda
 */
public class MethodMain {
    public static void main(String[] args) {
        Segitiga sgt = new Segitiga();
        JajarGenjang jg = new JajarGenjang();
        PersegiPanjang pp = new PersegiPanjang();
        Lingkaran L = new Lingkaran();
        System.out.println("Keliling Segitiga = " + sgt.keliling());
        System.out.println("Luas Segitiga = " + sgt.luas());
        System.out.println("Keliling JajarGenjang = " + jg.keliling());
        System.out.println("Luas JajarGenjang = " + jg.luas());
        System.out.println("Keliling PersegiPanjang = " + pp.keliling());
        System.out.println("Luas PersegiPanjang = " + pp.luas());
        System.out.println("Keliling Lingkaran = " + L.keliling());
        System.out.println("Luas Lingkaran = " + L.luas());
    }

}
```

MethodMain > main > L >

Output - Module9 (run)

```
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

```
 * and open the template in the editor.
 */

/**
 *
 * @author firda
 */
public class Segitiga extends MethodAbstract {
    int alas = 5;
    int tinggi = 10;
    int b = 12;
    int c = 14;
    @Override
    public int luas (){
        return alas*tinggi/2;
    }
    @Override
    public int keliling(){
        return alas+b+c;
}

}
```

```
 */
package BangunRuang;

/**Luas
 *
 * @author firda
 */
public abstract class MethodAbstract {
    public abstract int Volume ();
    public abstract int LuasSelimut();

    public int getVolume (){
        return Volume();
    }
    public int getSelimut(){
        return LuasSelimut();
    }
}
```

```java
 */
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);
    }

}
```

```java
 */
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;
    }
}
```

```java
 */
package BangunRuang;

/**
 *
 * @author firda
 */
public class Kerucut extends MethodAbstract{
    int t = 50;
    int pi = 22/7;
    int jari = 7;
    int s = 40;

    @Override
    public int Volume(){
        return (pi*jari*jari*t)*1/3;
}
    @Override
    public int LuasSelimut(){
        return pi*jari*s;
    }


}
```

utput - Module9 (run)

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

```
 * and open the template in the editor.
 */
package BangunRuang;

/**
 *
 * @author firda
 */
public class Kubus extends MethodAbstract{
    int s = 10;
    @Override
    public int Volume(){
        return s*s*s;
}
    @Override
    public int LuasSelimut(){
        return 6*(s*s);
    }

}
```

```
 * and open the template in the editor.
 */
package BangunRuang;

/**
 *
 * @author firda
 */
public class PrismaSegitiga {
    int a = 10;
    int t = 20;
    int tprisma =40;


    public int Volume(){
        return a*t/2*tprisma;
}
    public int LuasSelimut(){
        return t*(a+(3*tprisma));
    }

}
```

```java
 * and open the template in the editor.
 */
package BangunRuang;

/**
 *
 * @author firda
 */
public class MethodMain {
    public static void main(String[] args) {
        Balok blk = new Balok();
        Bola bla = new Bola();
        Kerucut krc = new Kerucut();
        Kubus kbs = new Kubus();
        PrismaSegitiga ps = new PrismaSegitiga();

        System.out.println("Volume Balok = " + blk.Volume());
        System.out.println("LuasPermukaan Balok = " + blk.LuasSelimut());
        System.out.println("Volume Bola = " + bla.Volume());
        System.out.println("LuasPermukaan Bola = " + bla.LuasSelimut());
        System.out.println("Volume Kerucut = " + krc.Volume());
        System.out.println("LuasPermukaan Kerucut = " + krc.LuasSelimut());
        System.out.println("Volume Kubus = " + kbs.Volume());
        System.out.println("Luas Permukaankubus = " + kbs.LuasSelimut());
        System.out.println("Volume PrismaSegitiga = " + ps.Volume());
        System.out.println("Luas Permukaan PrismaSegitiga = " + ps.LuasSelimut());
    }
}

```

BangunRuang.MethodMain > main >

Output - Module9 (run)

```
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)
```

Nama : Firdaus Aulia Faza

NIM : L200180042

Tugas 10.3

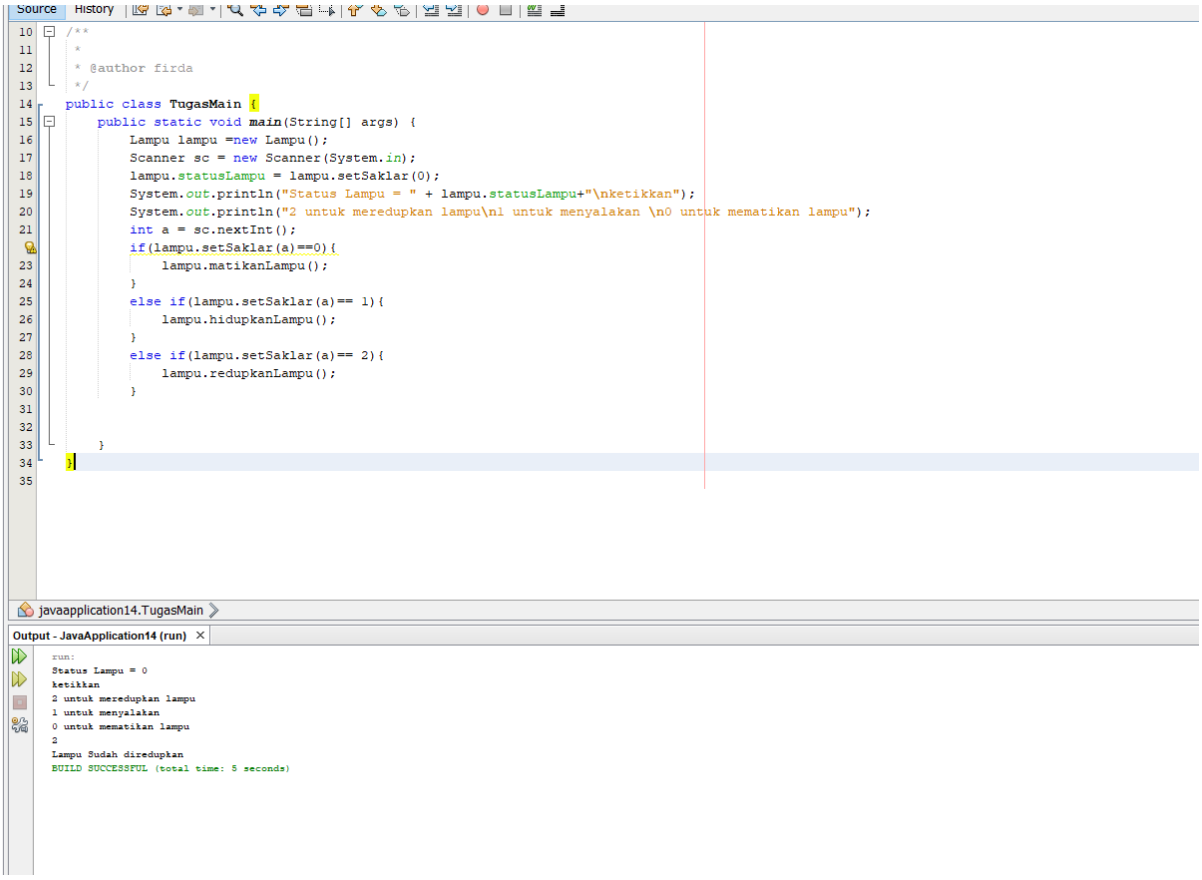
```
 2  * To change this license header, choose License Headers in Project Properties.
 3  * To change this template file, choose Tools | Templates
 4  * and open the template in the editor.
 5  */
 6 package javaapplication14;
 7
 8 /**
 9  *
10  * @author firda
11  */
12 public interface ActivityLampu {
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
```

```java
 * @author firda
 */
public class Lampu implements ActivityLampu {
    public int statusLampu;

    public void matikanLampu(){
        if(statusLampu==0){
            System.out.println("Lampu sudah dalam kondisi mati");
        }
        else if (statusLampu==1){
            statusLampu=-1;
            System.out.println("Lampu Sudah dimatikan");
        }
    }
    public void hidupkanLampu(){
        if (statusLampu==1){
            System.out.println("Lampu sudah dinyalakan\n***");
        }
        else {
            statusLampu=+1;
            System.out.println("Lampu sudah dalam kondisi nyala");
        }
    }
    public void redupkanLampu(){
        if (statusLampu==2){
            System.out.println("Lampu Sudah diredupkan");
        }
    }
    public int setSaklar (int saklar){
        return statusLampu = saklar;
    }
}
```

Output - JavaApplication14 (run)

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



```
Source  History
10  /**
11   *
12   * @author firda
13   */
14  public class TugasMain {
15      public static void main(String[] args) {
16          Lampu lampu =new Lampu();
17          Scanner sc = new Scanner(System.in);
18          lampu.statusLampu = lampu.setSaklar(0);
19          System.out.println("Status Lampu = " + lampu.statusLampu+"\nketikkan");
20          System.out.println("2 untuk meredupkan lampu\n1 untuk menyalakan \n0 untuk mematikan lampu");
21          int a = sc.nextInt();
23          if(lampu.setSaklar(a)==0){
24              lampu.matikanLampu();
25          }
26          else if(lampu.setSaklar(a)== 1){
27              lampu.hidupkanLampu();
28          }
29          else if(lampu.setSaklar(a)== 2){
30              lampu.redupkanLampu();
31          }
32
33      }
34  }
35
```

javaapplication14.TugasMain

Output - JavaApplication14 (run)

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

Nama : Firdaus Aulia Faza

NIM : L200180042

```
8
9
10  /**
11   *
12   * @author firda
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();
            System.out.println(nested.jurusan);
33
34  }
35
36
37
```

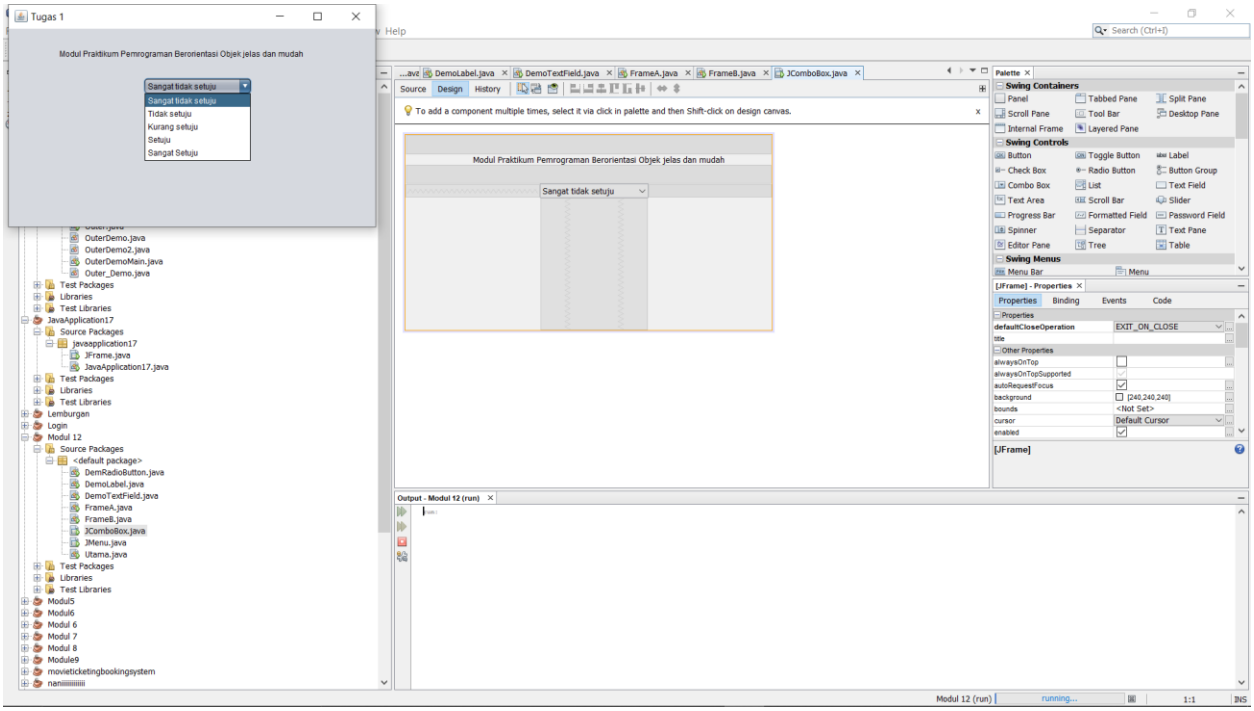
```
6   package javaapplication16;
7
8   /**
9    *
10   * @author firda
11   */
12  public class Mainan {
13      public static void main(String[] args) {
14              NestedClass nest = new NestedClass();
15              InnerClass inn = new InnerClass();
16              nest.printNama();
17   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

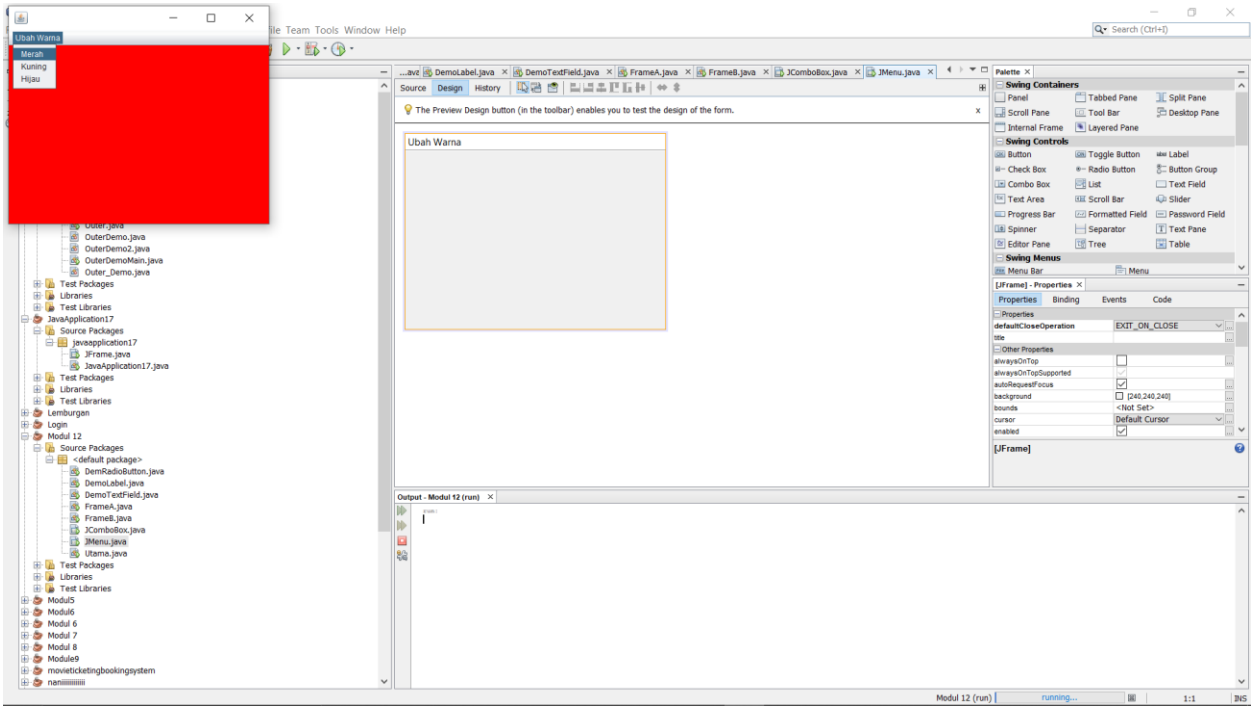
Output - JavaApplication16 (run)

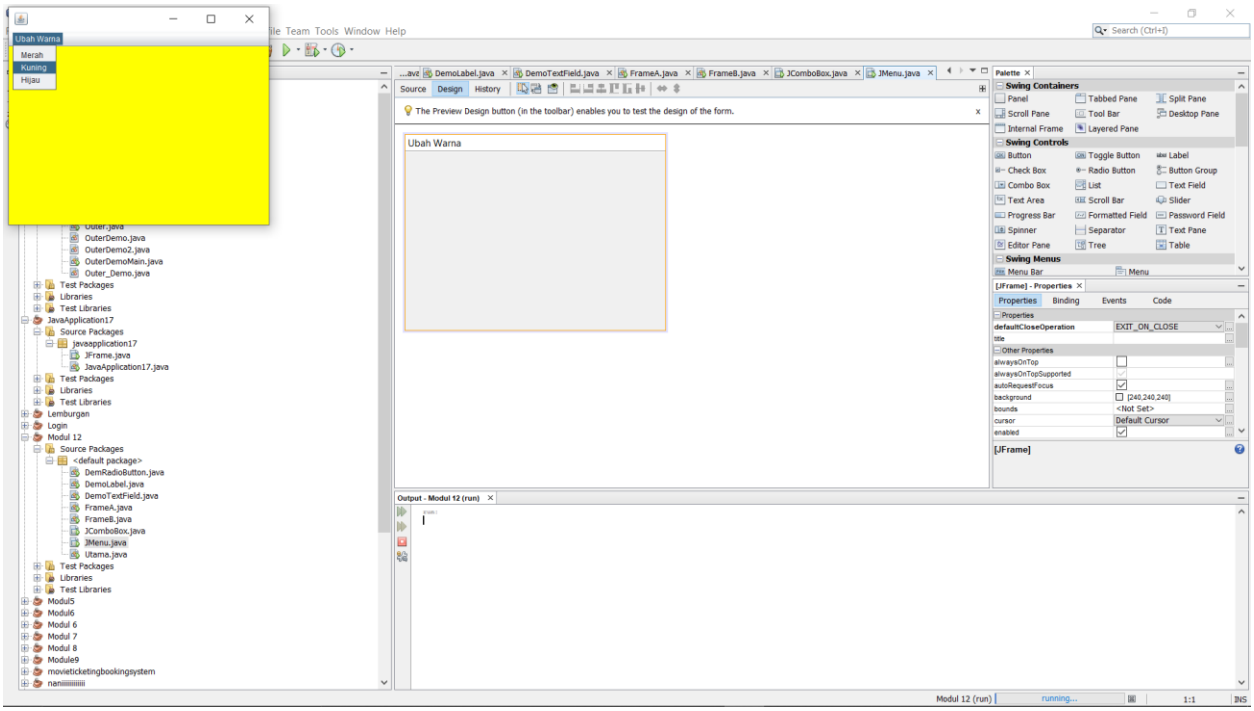
```
run:
Firdaus Aulia Fasa : L200180042
Informatika
BUILD SUCCESSFUL (total time: 0 seconds)
```

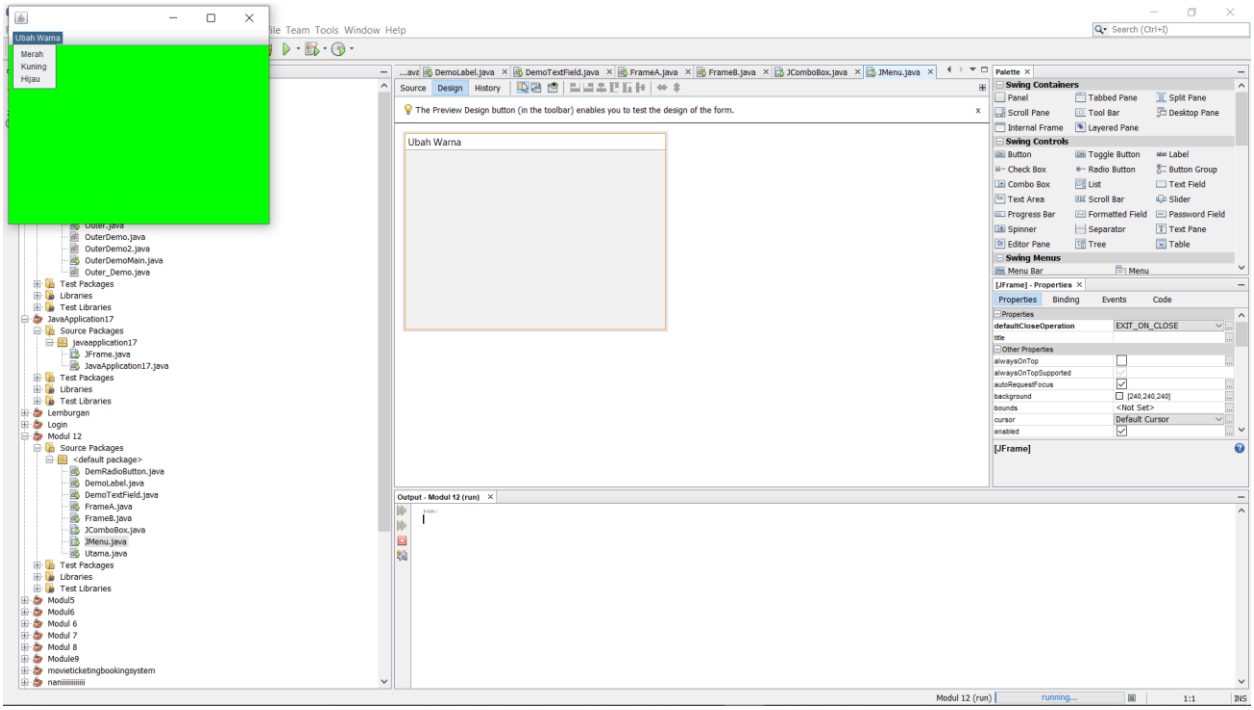
NAMA : FIRDAUS AULIA FAZA

NIM : L200180042






Ubah Warna
Merah
Kuning
Hijau
Ubah Warna
The Preview Design button (in the toolbar) enables you to test the design of the form.
Output - Modul 12 (run)


Ubah Warna
Merah
Kuning
Hijau
Ubah Warna
The Preview Design button (in the toolbar) enables you to test the design of the form.
Output - Modul 12 (run)