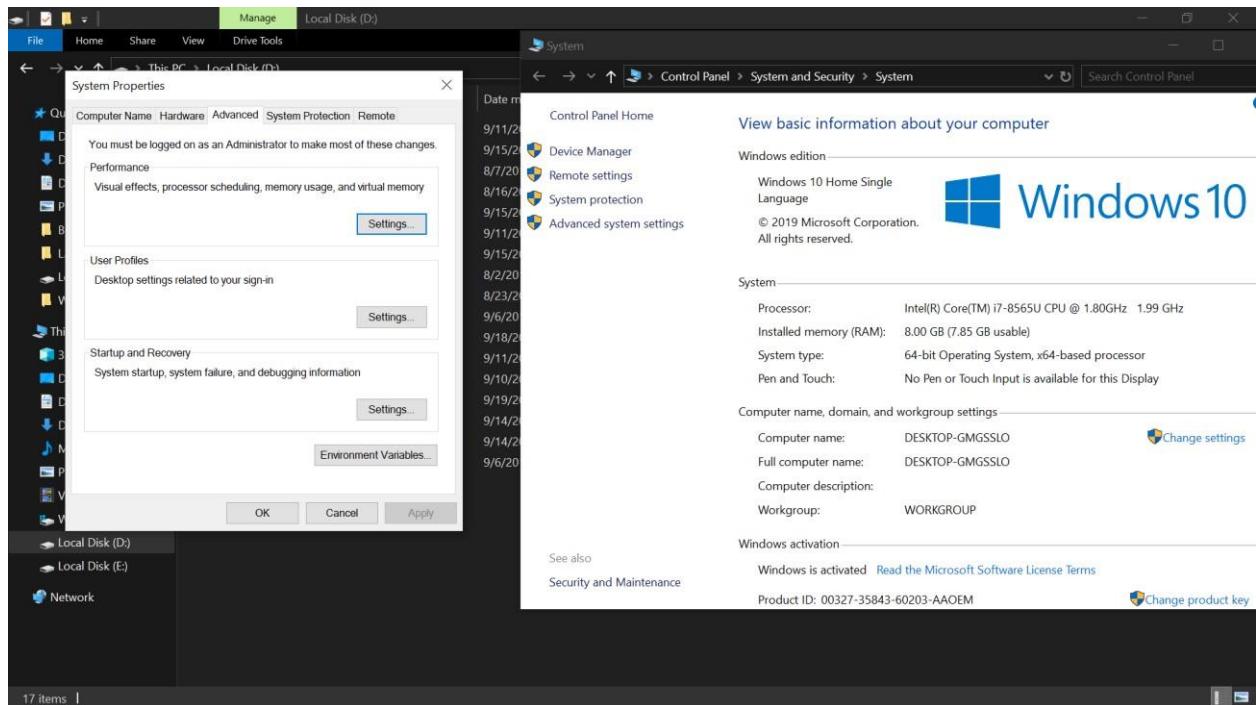


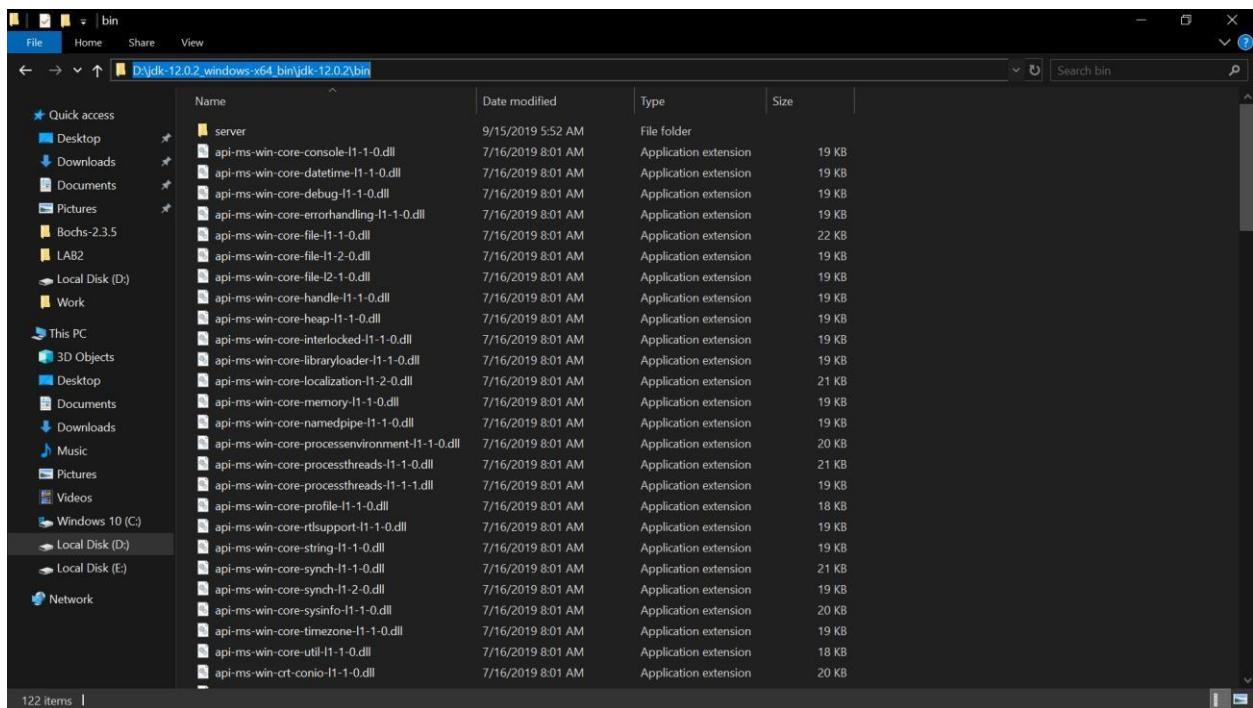
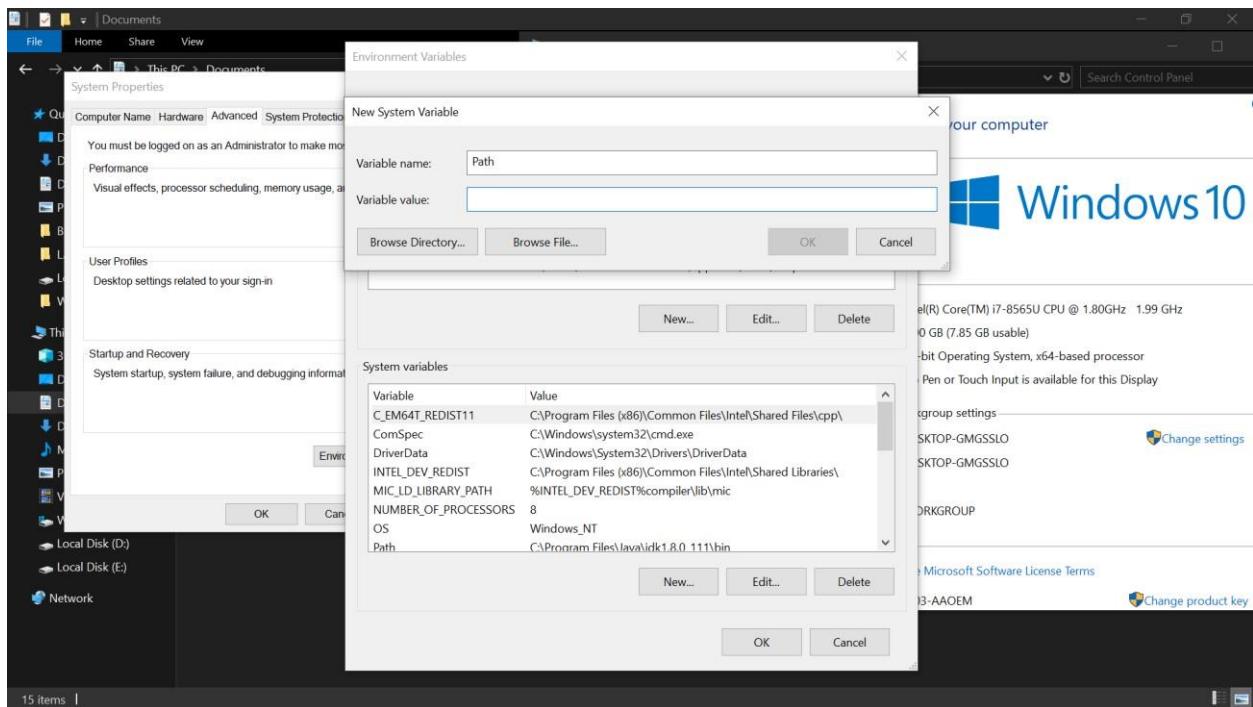
Nama : Hasan Ali

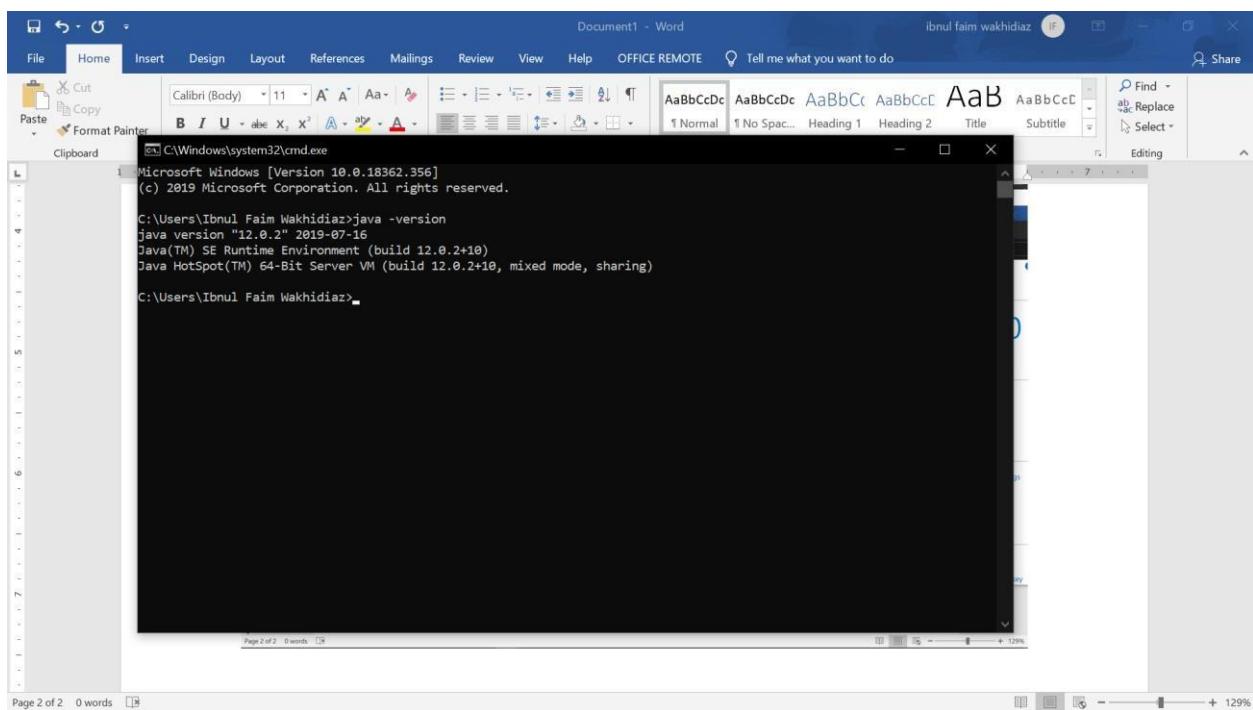
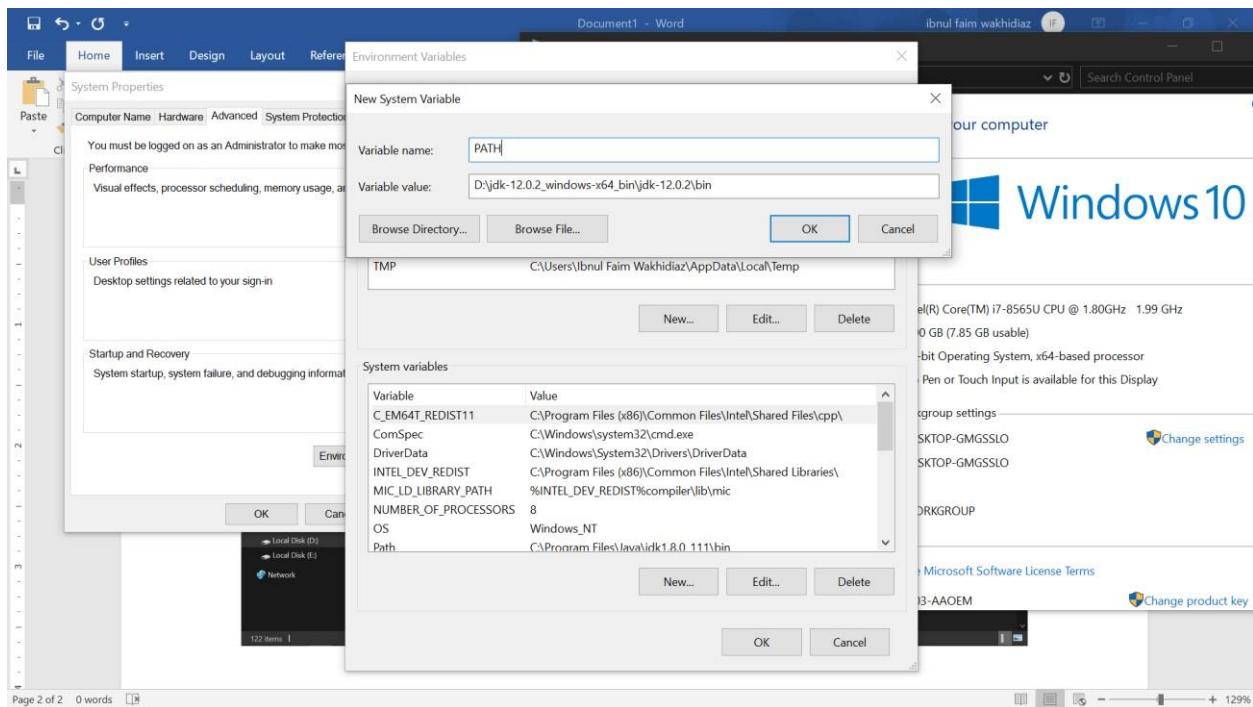
Kelas : B

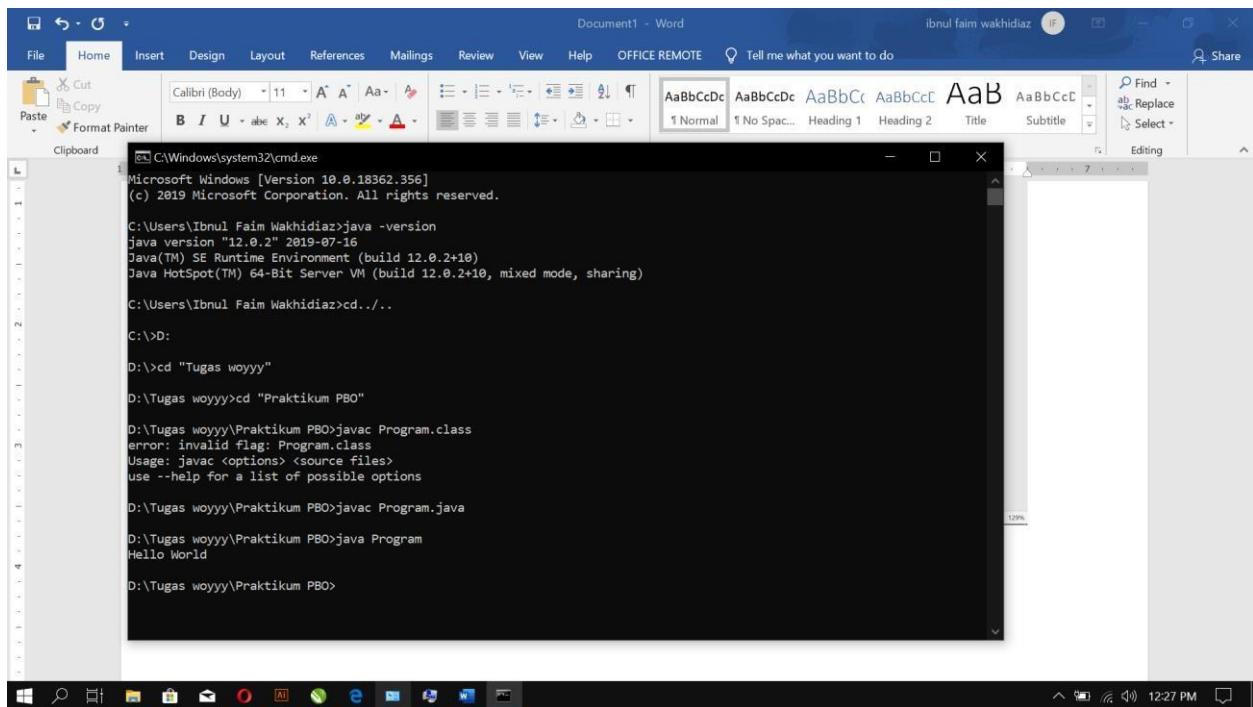
NIM : L200180077

## Praktikum 1









The screenshot shows a Microsoft Word document window titled "Document1 - Word". The ribbon menu is visible at the top, and the "Home" tab is selected. A large portion of the screen is occupied by a "Clipboard" pane containing a command-line session from a Windows terminal window. The session starts with the system information, followed by Java version and runtime environment details, then navigating to a directory, changing to another drive, and finally running a Java program which outputs "Hello World".

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.18362.356]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Ibnul Faim Wakhidiaz>java -version
java version "12.0.2" 2019-07-16
Java(TM) SE Runtime Environment (build 12.0.2+10)
Java HotSpot(TM) 64-Bit Server VM (build 12.0.2+10, mixed mode, sharing)

C:\Users\Ibnul Faim Wakhidiaz>cd../..

C:\>D:

D:\>cd "Tugas woyyy"

D:\Tugas woyyy>javac Program.class
error: invalid flag: Program.class
Usage: javac <options> <source files>
use --help for a list of possible options

D:\Tugas woyyy>javac Program.java

D:\Tugas woyyy>java Program
Hello World

D:\Tugas woyyy>Praktikum PBO>
```

## Praktikum 2

E:\prograk\pbo\mahasiswa.java - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

hewan.java hewanDemo.java karyawan.java dosen.java mahasiswa.java

```
1 public class mahasiswa {
2     String nama;
3     String nim;
4     String alamat;
5     int semester;
6
7     void tampilanNama (String nama){
8         this.nama = nama;
9     };
10    void tampilanNim (String nim){
11        this.nim = nim;
12    };
13    void tampilanAlamat (String alamat){
14        this.alamat = alamat;
15    };
16    void tampilanSemester (int semester){
17        this.semester = semester;
18    };
19 }
```

Activate Windows  
Go to Settings to activate Windows.

Line 1, Column 1 Tab Size: 4 Java

E:\prograk\pbo\hewan.java - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

hewan.java hewanDemo.java

```
1 public class hewan {
2     String nama;
3     int jmlKaki;
4     String makan;
5     String hewantype;
6
7     void getNama(String nama){ this.nama = nama;}
8     void getJmlKaki(int jmlKaki){ this.jmlKaki = jmlKaki;}
9     void getMakan(String makan){ this.makan = makan;}
10    void getHewantype(String hewantype){ this.hewantype = hewantype;}
11
12    void getInfoHewan(){
13        System.out.println(
14            "Nama Hewan : " + nama + "\n" +
15            "Jumlah Kaki : " + jmlKaki + "\n" +
16            "Makanan : " + makan + "\n" +
17            "Hewan type : " + hewantype + "\n\n"
18        );
19    }
20 }
```

Activate Windows  
Go to Settings to activate Windows.

Line 20, Column 2 Tab Size: 4 Java

E:\progprak\pbo\hewanDemo.java - Sublime Text (UNREGISTERED)

File Edit Selection Find Goto Tools Project Preferences Help

OPEN FILES

hewan.java hewanDemo.java

```
1 public class hewanDemo{  
2     public static void main(String[] args) {  
3         hewan hewan1 = new hewan ();  
4         hewan hewan2 = new hewan ();  
5         hewan1.getNama("Harimau");  
6         hewan1.getJmlKaki(4);  
7         hewan1.getMakan("daging");  
8         hewan1.getHewanType("Karnivora");  
9         hewan1.getInfoHewan();  
10    hewan2.getNama("Kerbau");  
11    hewan2.getJmlKaki(4);  
12    hewan2.getMakan("Rumput");  
13    hewan2.getHewanType("Herrnivora");  
14    hewan2.getInfoHewan();  
15 }  
16 }  
17 }
```

Activate Windows  
Go to Settings to activate Windows.

Line 17, Column 2 Tab Size: 4 Java

Command Prompt

(c) 2019 Microsoft Corporation. All rights reserved.

```
C:\Users\Student>javac hewanDemo.java  
javac: file not found: hewanDemo.java  
Usage: javac <options> <source files>  
use -help for a list of possible options
```

C:\Users\Student>e:

```
E:\>cd progprak\pbo  
E:\progprak\pbo>javac hewanDemo.java  
E:\progprak\pbo>javac hewan.java  
E:\progprak\pbo>java hewanDemo  
Nama Hewan : Harimau  
Jumlah Kaki : 4  
Makanan : daging  
Hewan type : Karnivora  
  
Nama Hewan : Kerbau  
Jumlah Kaki : 4  
Makanan : Rumput  
Hewan type : Herrnivora
```

E:\progprak\pbo>

## Praktikum 3

test - NetBeans IDE 8.2

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

<default config>

Projects test

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 test;
7
8 /**
9 *
10 * @author LABRPL-10
11 */
12
13 public class Nilai{
14     double nilaiUTS;
15     double nilaiUAS;
16     double nilaiTugas;
17     double nilaiTotal;
18
19     void nilaiTotal(double nilaiUTS, double nilaiUAS, double nilaiTugas){
20         this.nilaiUTS = nilaiUTS;
21         this.nilaiUAS = nilaiUAS;
22         this.nilaiTugas = nilaiTugas;
23     }
24
25     Double getUTS(double a){
26         return this.nilaiUTS = a;
27     }
28
29     Double getUAS(double b){
30         return this.nilaiUAS = b;
31     }
32 }
```

Output

3:39 PM 9/27/2019

test - NetBeans IDE 8.2

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

<default config>

Projects test

Source History

```
28
29     Double getUAS(double b){
30         return this.nilaiUAS = b;
31     }
32
33     Double getTugas(double c){
34         return this.nilaiTugas = c;
35     }
36
37     Double getResult(){
38         return this.nilaiTotal = (this.nilaiTugas + this.nilaiUAS + this.nilaiUTS)/3;
39     }
40
41     void showResult(){
42         System.out.println(
43             "Nilai Tugas : " + this.nilaiTugas + "\n"+
44             "Nilai UTS : " + this.nilaiUTS + "\n"+
45             "Nilai UAS : " + this.nilaiUAS + "\n"+
46             "Nilai Akumulai Anda adalah : " + this.nilaiTotal
47         );
48     }
49
50     public static void main(String[] args) {
51         Nilai n = new Nilai();
52         n.getTugas(30);
53         n.getUTS(90);
54         n.getUAS(78);
55         n.getResult();
56         n.showResult();
57     }
58 }
```

Output

3:40 PM 9/27/2019

## Praktikum 4

The screenshot shows the IntelliJ IDEA interface with the following details:

- Project Structure:** The project tree on the left shows a main.java module containing a Main.java file and a com.tutorial module containing a latihan1 package with a Main.java file.
- Code Editor:** Two files are open: Main.java and latihan1.java. The Main.java editor shows the following code:

```
package com.tutorial;
public class latihan1 {
    public static void main(String[] args) {
        Main b = new Main();
        b.nama = "hasan";
        b.umur = 10;
```

A tooltip appears over the 'umur' field in the Main class, stating "'umur' has private access in 'com.tutorial.Main'".
- Run Tab:** The Run tab shows a successful run of the Main class with the command "C:\Program Files\Java\jdk-13\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.2\lib\idea\_rt.jar=52388:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.2\bin". The output says "Process finished with exit code 0".
- Bottom Status Bar:** The status bar at the bottom shows the time as 7:13, encoding as CRLF, character set as UTF-8, and indentation as 4 spaces.

The screenshot shows the IntelliJ IDEA interface with the following details:

- Project Structure:** The project tree shows a package named "main.java" containing files "idea", "out", "src", "com.tutorial", "Modifier", and "task1".
- Code Editor:** The editor displays the code for "task1.java":

```
1 package Modifier;
2
3 public class task1 {
4
5     public static void main (String[] args){
6         DefaultModifier b = new DefaultModifier();
7         b.jumlah();
8     }
9 }
```
- Run Tab:** The "Run" tab shows the command run: "C:\Program Files\Java\jdk-13\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.2\lib\idea\_rt.jar=52554:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.2\bin". The output shows "Process finished with exit code 0".
- Event Log:** The event log indicates "Build completed successfully in 2 s 80 ms (4 minutes ago)".
- Bottom Status:** The status bar shows "1:18 CRLF UTF-8 4 spaces".

The screenshot shows the IntelliJ IDEA interface with the following details:

- Project Structure:** The project tree shows a package named "main.java" containing files "idea", "out", "src", "com.tutorial", "Modifier", "task1", and "Protected".
- Code Editor:** The editor displays the code for "unik.java":

```
1 package Protected;
2
3 import Modifier.DefaultModifier;
4
5 public class unik {
6     public static void main(String[] args){
7         DefaultModifier z = new DefaultModifier();
8         protectedModifier y = new protectedModifier();
9         z.jumlah();
10    }
11 }
```
- Tool Window:** A tool window is open at the bottom of the editor, showing a warning message: "'jumlah()' is not public in 'Modifier.DefaultModifier'. Cannot be accessed from outside package". It includes options: "Make 'DefaultModifier.jumlah' public", "Alt+Shift+Enter", "More actions...", and "Alt+Enter".
- Run Tab:** The "Run" tab shows the command run: "C:\Program Files\Java\jdk-13\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.2\lib\idea\_rt.jar=52554:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.2\bin". The output shows "Process finished with exit code 0".
- Event Log:** The event log indicates "Build completed successfully in 1 s 896 ms (34 minutes ago)".
- Bottom Status:** The status bar shows "11:1 CRLF UTF-8 4 spaces".

The screenshot shows the IntelliJ IDEA interface with the following details:

- Project Structure:** The project tree on the left shows a package named "Protected". Inside "Protected" are classes "protectedModifier", "DefaultModifier", and "task1".
- Code Editor:** The main editor window displays the "protectedModifier.java" file. The code is as follows:

```
1 package Protected;
2
3 public class protectedModifier {
4     protected void printInfo() {
5         System.out.println("protected Modifier");
6     }
7
8     protected void sendMessage() {
9         System.out.println("this is a message");
10    }
11
12    public static void main(String[] args) {
13        protectedModifier tes = new protectedModifier();
14        tes.printInfo();
15        tes.sendMessage();
16    }
17}
```

- Run Tab:** The "Run" tab is selected, showing the command used to run the application: "C:\Program Files\Java\jdk-13\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.2\lib\idea\_rt.jar=52711:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.2\bin". The output shows the application's execution:

```
protected Modifier
this is a message
```

- Bottom Status:** The status bar at the bottom indicates "Process finished with exit code 0".
- Build Log:** The "Event Log" tab shows the build completed successfully in 2 s 321 ms (moments ago).

The screenshot shows the IntelliJ IDEA interface with the following details:

- Project Structure:** The project tree on the left shows a package named "Modifier". Inside "Modifier" are classes "DefaultModifier", "publicModifier", and "task1".
- Code Editor:** The main editor window displays the "DefaultModifier.java" file. The code is as follows:

```
1 package Modifier;
2
3 public class DefaultModifier {
4     // int a = 1;
5     // int b = 3;
6     // int c;
7     // void jumlah(){
8     //     c = a + b;
9     //     System.out.println(c);
10    }
11    public static void main (String[] args){
12        DefaultModifier move = new DefaultModifier();
13        publicModifier run = new publicModifier();
14        run.kali();
15        move.jumlah();
16    }
17}
```

- Run Tab:** The "Run" tab is selected, showing the command used to run the application: "C:\Program Files\Java\jdk-13\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.2\lib\idea\_rt.jar=52812:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.2\bin". The output shows the application's execution:

```
Hasil kali = 48
```

- Bottom Status:** The status bar at the bottom indicates "Process finished with exit code 0".
- Build Log:** The "Event Log" tab shows the build completed successfully in 1 s 876 ms (a minute ago).

The screenshot shows the IntelliJ IDEA interface with the project structure on the left. The 'src' folder contains a package named 'Protected'. Inside 'Protected' are three classes: 'DefaultModifier', 'publicModifier', and 'unik'. The 'unik' class is selected. The code editor shows the following Java code:

```
1 package Protected;
2
3 import Modifier.DefaultModifier;
4 import Modifier.publicModifier;
5
6 public class unik {
7     public static void main(String[] args){
8         DefaultModifier z = new DefaultModifier();
9         protectedModifier y = new protectedModifier();
10        // z.jumlah();
11        publicModifier x = new publicModifier();
12        x.kali();
13    }
14 }
15
16
```

The 'Run' tool window at the bottom shows the output of running the 'unik' class:

```
"C:\Program Files\Java\jdk-13\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.2\lib\idea_rt.jar=52844:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.2\bin" -Dfile.encoding=UTF-8 C:\Dev\Tutorial java\main.java
Hasil kali = 48
Process finished with exit code 0
```

The screenshot shows the IntelliJ IDEA interface with the project structure on the left. The 'src' folder contains a package named 'Modifier'. Inside 'Modifier' is a class named 'publicModifier'. The 'publicModifier' class is selected. The code editor shows the following Java code:

```
1 package Modifier;
2
3 public class publicModifier {
4     public int a = 2;
5     public int b = 3;
6     public int c = 8;
7     public void kali(){
8         int d = a*b*c;
9         System.out.println("Hasil kali = " + d);
10    }
11    public void kurang(){
12        int f = a-b-c;
13        System.out.println("Hasil kurang = " + f);
14    }
15    public void tambah(){
16        int e = a+b+c;
17        System.out.println("Hasil tambah = " + e);
18    }
19    public void rata_rata(){
20        int g = (a+b+c)/3;
21        System.out.println("Hasil rata_rata = " + g);
22    }
23
24    public static void main(String[] args){
25        publicModifier GG = new publicModifier();
26        GG.kali();
27        GG.tambah();
28        GG.kurang();
29        GG.rata_rata();
30    }
31
32}
```

The 'Run' tool window at the bottom shows the output of running the 'publicModifier' class:

```
"C:\Program Files\Java\jdk-13\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.2\lib\idea_rt.jar=52844:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.2\bin" -Dfile.encoding=UTF-8 C:\Dev\Tutorial java\main.java
Hasil kali = 48
Hasil tambah = 13
Hasil kurang = -9
Hasil rata_rata = 4
Process finished with exit code 0
```

## Praktikum 5

The screenshot shows the IntelliJ IDEA interface with the following details:

- Project:** ISBN
- File:** Constructor.java
- Code:**

```
1 package com.tutorial;
2
3 public class Constructor {
4     public Constructor(){
5         System.out.println("default constructor");
6     }
7     public static void main(String[] args){
8         Constructor tes = new Constructor();
9     }
10 }
```

- Run:** Main2
- Output:**

```
"C:\Program Files\Java\jdk-13\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.2\lib\idea_rt.jar=50054:C:\Program Files\JetBrains\In
default constructor

Process finished with exit code 0
```

The screenshot shows the IntelliJ IDEA interface with the following details:

- Project:** ISBN
- File:** Constructor.java
- Code:**

```
1 package com.tutorial;
2
3 public class Constructor {
4     String nama;
5     String nim;
6     int tahun;
7
8     public Constructor(String nama ,String nim , int tahun) {
9         this.nama = nama;
10        this.nim = nim;
11        this.tahun = tahun;
12    }
13
14    void info(){
15        System.out.println("nama = " + nama + "\nnim" + nim + "\ntahun" + tahun);
16    }
17
18    public static void main(String[] args){
19        Constructor tes = new Constructor( nama: "hasan" ,nim: "L200180077" , tahun: 2018 );
20        tes.info();
21    }
22 }
```

- Run:** Constructor
- Output:**

```
"C:\Program Files\Java\jdk-13\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.2.2\lib\idea_rt.jar=50107:C:\Program Files\JetBrains\In
nama = hasan
nim = L200180077
tahun = 2018

Process finished with exit code 0
```

# Praktikum 6

The screenshot shows the NetBeans IDE interface with the title bar "TugasPbo - NetBeans IDE 8.2". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help. The toolbar has icons for New Project, Open Project, Save, Cut, Copy, Paste, Find, Replace, and others. The source editor displays the code for the `BangunDatar` class:

```
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 Space;
7
8  /**
9   * @author hasan
10  */
11 public class BangunDatar {
12     public double luas;
13     public double keliling;
14     void hitungLuas(){
15         System.out.println("ini adalah luas");
16     }
17     void hitungKeliling(){
18         System.out.println("ini adalah keliling");
19     }
20 }
21
22
```

The screenshot shows the NetBeans IDE interface with the title bar "TugasPbo - NetBeans IDE 8.2". The menu bar and toolbar are identical to the previous screenshot. The source editor displays the code for the `Persegi` class, which extends `BangunDatar`:

```
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 Space;
7
8  /**
9   * @author hasan
10  */
11 public class Persegi extends BangunDatar {
12     double sisi;
13     Persegi(double sisi){
14         this.sisi = sisi;
15         keliling = 4 * sisi;
16         System.out.println("hasilnya adalah " + this.keliling);
17     }
18     public static void main (String[] args){
19         Persegi gg = new Persegi(20);
20         BangunDatar B = new BangunDatar();
21         B.hitungKeliling();
22     }
23 }
24
25
26
```

The Output window at the bottom shows the build log:

```
Output - TugasPbo (run)
run
hasilnya adalah 80.0
ini adalah keliling
BUILD SUCCESSFUL (total time: 0 seconds)
```

TugasPbo - NetBeans IDE 8.2

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

Source History Projects BangunDatar.java Persegi.java PersegiPanjang.java samaSisi.java SegiTiga.java Demo.java samaKaki.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 Space;
7
8 /**
9 *
10 * @author hasan
11 */
12 public class PersegiPanjang extends BangunDatar{
13     int panjang;
14     double lebar;
15     PersegiPanjang(int panjang,double lebar){
16         this.panjang = panjang;
17         this.lebar = lebar;
18         luas = panjang * lebar ;
19         System.out.println("luas persegi panjang" + luas);
20     }
21     public static void main (String[] args){
22         PersegiPanjang PP = new PersegiPanjang(30,20);
23         BangunDatar gg = new BangunDatar();
24         gg.hitungLuas();
25     }
26 }
27
```

Output - TugasPbo (run)

```
run
run
luas persegi panjang600.0
Ini adalah luas
BUILD SUCCESSFUL (total time: 0 seconds)
```

Output Action Items Javadoc Finished building TugasPbo (run.). 1:1 INS

TugasPbo - NetBeans IDE 8.2

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

Source History Projects BangunDatar.java Persegi.java PersegiPanjang.java samaSisi.java SegiTiga.java Demo.java samaKaki.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 Space;
7
8 /**
9 *
10 * @author hasan
11 */
12 public class SegiTiga extends BangunDatar {
13     double sisi;
14     void SegiTiga(double sisi){
15         this.sisi = sisi;
16     }
17     void rumus(){
18         keliling = sisi * 3;
19         System.out.println("kelilingnya adalah " + keliling);
20     }
21     void info(){
22         System.out.println("ini adalah segitiga");
23     }
24     public static void main(String[] args){
25         SegiTiga ST = new SegiTiga();
26         ST.SegiTiga(20);
27         ST.rumus();
28         ST.hitungKeliling();
29     }
30 }
```

Output - TugasPbo (run)

```
run
run
kelilingnya adalah 60.0
ini adalah keliling
BUILD SUCCESSFUL (total time: 0 seconds)
```

Output Action Items Javadoc Finished building TugasPbo (run.). 24.28/1:23 INS

TugasPbo - NetBeans IDE 8.2

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

Projects BangunDatar.java Persegi.java Persegipanjang.java samaSisi.java Segitiga.java Demo.java samaKaki.java

Source History <default config... > Search (Ctrl+F)

```
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 package Space;
6
7 /**
8  * 
9  * @author hasan
10 */
11 public class samaSisi extends Segitiga {
12     double sisiMiring;
13     samaSisi(double sisiMiring){
14         this.sisiMiring = sisiMiring;
15         keliling = sisiMiring * 3 ;
16         System.out.println("keliling dari segitigasamasisi adalah " + keliling);
17     }
18     public static void main(String[] args){
19         samaSisi tes = new samaSisi(12);
20         tes.info();
21     }
22 }
23
24
```

Output - TugasPbo (run)

```
keliling dari segitigasamasisi adalah 36.0
Ini adalah segitiga
BUILD SUCCESSFUL (total time: 0 seconds)
```

Output Action Items Javadoc Finished building TugasPbo (run). 21:16 INS

TugasPbo - NetBeans IDE 8.2

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

Projects BangunDatar.java Persegi.java Persegipanjang.java samaSisi.java Segitiga.java Demo.java samaKaki.java

Source History <default config... > Search (Ctrl+F)

```
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 package Space;
6
7 /**
8  * 
9  * @author hasan
10 */
11 public class samaKaki extends Segitiga {
12     double sisi;
13     samaKaki(double sisi){
14         this.sisi = sisi;
15         keliling = sisi + sisi + sisi;
16         System.out.println("Ini adalah hasil dari segitigasamakaki " + keliling);
17     }
18     public static void main(String [] args){
19         samaKaki B = new samaKaki(15);
20         B.info();
21     }
22 }
23
24
```

Output - TugasPbo (run)

```
Ini adalah hasil dari segitigasamakaki 45.0
Ini adalah segitiga
BUILD SUCCESSFUL (total time: 0 seconds)
```

Output Action Items Javadoc Finished building TugasPbo (run). 24:1 INS

# Praktikum 7

TugasPbo - NetBeans IDE 8.2

```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Source History | <default config... | Search (Ctrl+F) | Output
Projects Karyawan.java Manager.java
Source londri.java haril.java Karyawan.java Manager.java
londri.java
6 package space;
7
8 /**
9 * @author hasan
10 */
11
12 public class Karyawan {
13     private String nama;
14     private float gaji;
15     private int usia;
16     private String alamat;
17     private int join;
18
19     public String getNama() {
20         return nama;
21     }
22     public float getGaji() {
23         return gaji;
24     }
25     public int getUsia() {
26         return usia;
27     }
28     public String getAlamat() {
29         return alamat;
30     }
31     public int getJoin() {
32         return join;
33     }
34     public void setNama(String nama) {
35         this.nama = nama;
36     }
37     public void setGaji(int gaji) {
38         this.gaji = gaji;
39     }
40     public void setUsia(int usia) {
41         this.usia = usia;
42     }
43     public void setAlamat(String alamat) {
44         this.alamat = alamat;
45     }
}
Action Items Javadoc 50:39 INS
```

TugasPbo - NetBeans IDE 8.2

```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Source History | <default config... | Search (Ctrl+F) | Output
Projects Karyawan.java Manager.java
Source londri.java haril.java Karyawan.java Manager.java
londri.java
27     }
28     public String getAlamat() {
29         return alamat;
30     }
31     public int getJoin() {
32         return join;
33     }
34     public void setNama(String nama) {
35         this.nama = nama;
36     }
37     public void setGaji(int gaji) {
38         this.gaji = gaji;
39     }
40     public void setUsia(int usia) {
41         this.usia = usia;
42     }
43     public void setAlamat(String alamat) {
44         this.alamat = alamat;
45     }
46     public void setJoin(int join) {
47         this.join = join;
48     }
49     public static void main(String [] args){
50         Karyawan tes = new Karyawan();
51         tes.setNama("hasan");
52         tes.setGaji(500000);
53         tes.setJoin(20119);
54         tes.setUsia(20);
55         tes.setAlamat("bogor");
56
57         System.out.println(tes.getAlamat());
58         System.out.println(tes.getNama());
59         System.out.println(tes.getUsia());
60         System.out.println(tes.getJoin());
61         System.out.println(tes.getAlamat());
62         System.out.println();
63     }
64
65 }
66
Action Items Javadoc 50:39 INS
```

TugasPbo - NetBeans IDE 8.2

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

Search (Ctrl+F)

londri.java har11.java Karyawan.java Manager.java

Source History <default config> Run Build Clean Open Recent

Projects

```
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 Space;
7
8 /**
9 *
10 * @author hasan
11 */
12 public class Manager extends Karyawan{
13     private float jamKerja = 7.5f;
14
15
16     public float jamKerja(){
17         return jamKerja;
18     }
19     public float getGajiManager(){
20         return getGaji() * 2 ;
21     }
22     public void setGaji(float jamKerja){
23         this.jamKerja = jamKerja;
24     }
25     public void info(){
26         System.out.println("Jam Keja" + jamKerja);
27     }
28     public static void main(String [] args){
29         Manager mn = new Manager();
30         mn.setGaji(8.5f);
31         mn.info();
32     }
33 }
34
35
```

Action Items Javadoc

Output - TugasPbo (run) x

```
Jan Keba5.5
BUILD SUCCESSFUL (total time: 0 seconds)
```

INS 7:1

## Praktikum 8

TugasPbo - NetBeans IDE 8.2

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

Search (Ctrl+F)

Pet.java Kucing.java Anjing.java Testpolymorphism.java Elang.java CustomerData.java Demo1.java B..

Source History <default config> Run Build Clean Open Recent

Projects

```
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 Space;
7
8 /**
9 *
10 * @author hasan
11 */
12 public class Kucing extends Pet{
13     private void tidur(){
14         System.out.println("Kucing tidur di kasur");
15     }
16     public static void main(String [] args){
17         Pet b = new Pet();
18         Kucing c = new Kucing();
19         c.tidur();
20         System.out.println(b.perilaku());
21     }
22 }
```

Action Items Javadoc

Output - TugasPbo (run) x

```
Bunge Bank 10.4
BUILD SUCCESSFUL (total time: 0 seconds)
```

INS 19:12

TugasPbo - NetBeans IDE 8.2

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

Search (Ctrl+F)

Projects Pet.java Kucing.java Anjing.java Testpolymorphism.java Elang.java CustomerData.java Demo1.java B...

Source History <default config... > Run Stop Build Clean...

Output - TugasPbo (run) x

```
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 Space;
7
8 /**
9 *
10 * @author hasan
11 */
12 public class Anjing extends Pet{
13     private String makan(){
14         return "Anjing makan daging";
15     }
16     public static void main(String[]args){
17         Pet b = new Pet();
18         Anjing a = new Anjing();
19         System.out.println(b.perilaku());
20         System.out.println(a.makan());
21     }
22 }
```

Action Items Javadoc

20:37 INS

TugasPbo - NetBeans IDE 8.2

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

Source History <default config... > Search (Ctrl+F)

Projects Pet.java Kucing.java Anjing.java Testpolymorphism.java Elang.java CustomerData.java Demo1.java B...

```
7  /*
8   * 
9   * @author hasan
10  */
11 public class Testpolymorphism extends Pet {
12     public void ikan(){
13         System.out.println("Menyukai Ikan");
14     }
15     public String suara(){
16         return "Meeoww-Meeoww";
17     }
18     public void tulang(){
19         System.out.println("Menyukai daging dan tulang");
20     }
21     public String suara2(){
22         return "Guk-Guk-Guk";
23     }
24 }
25 public static void main(String[] args){
26     Pet b = new Pet();
27     b.beriNama("TOM");
28     System.out.println(b.panggilNama());
29     Testpolymorphism a = new Testpolymorphism();
30     a.ikan();
31     System.out.println(a.suara());
32     b.beriNama("BULL");
33     System.out.println(b.panggilNama());
34     a.tulang();
35     System.out.println(a.suara2());
36 }
37 }
```

Action Items Javadoc Finished building TugasPbo (run).

Output - TugasPbo (run) x

```
TOM
Menyukai Ikan
Meeoww-Meeoww
Guk-Guk-Guk
Menyukai daging dan tulang
Guk-Guk-Guk
BUILD SUCCESSFUL (total time: 0 seconds)
```

TugasPbo - NetBeans IDE 8.2

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

Source History <default config... > Search (Ctrl+F)

Projects Pet.java Kucing.java Anjing.java Testpolymorphism.java Elang.java CustomerData.java Demo1.java B...

```
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 Space;
7
8 /**
9  * 
10 * @author hasan
11 */
12 public class Elang extends Pet {
13     public void jalan(){
14         System.out.println("Hewan ini bisa jalan dan terbang");
15     }
16 }
17 public static void main(String[] args){
18     Elang C = new Elang();
19     C.jalan();
20 }
```

Action Items Javadoc Finished building TugasPbo (run).

Output - TugasPbo (run) x

```
Hewan ini bisa jalan dan terbang
BUILD SUCCESSFUL (total time: 0 seconds)
```

TugasPbo - NetBeans IDE 8.2

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

Search (Ctrl+F)

Output - TugasPbo (run) x

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33
```

Space;

or hasan

class CustomerData {  
 String nama;  
 String alamat;  
 String tanggalLahir;  
 String pekerjaan;  
 int gaji;

public CustomerData() {  
 this.nama = nama;  
 this.alamat = alamat;  
 this.tanggalLahir = tanggalLahir;  
 this.pekerjaan = pekerjaan;  
 this.gaji = gaji;  
 }  
 public CustomerData(String nama, String alamat, String tanggalLahir, String pekerjaan, int gaji) {  
 this.nama = nama;  
 this.alamat = alamat;  
 this.tanggalLahir = tanggalLahir;  
 this.pekerjaan = pekerjaan;  
 this.gaji = gaji;  
 }  
 public void printInfo() {  
 System.out.println("Nama " + nama + " alamat " + alamat + " Tanggal lahir " + tanggalLahir  
 + " pekerjaan " + pekerjaan + " gaji " + gaji);  
 }  
}

Output:  
Nama hasan alamat bogor Tanggal lahir 25 pekerjaan Nbs gaji 80000  
BUILD SUCCESSFUL (total time: 0 seconds)

Action Items Javadoc Finished building TugasPbo (run).

30:61 INS

TugasPbo - NetBeans IDE 8.2

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

Source History <default config...> Search (Ctrl+I)

Output - TugasPbo (run) x

...vl Demo1.java x Bank.java x BankPribadi.java x BankUmum.java x BankPasar.java x BankSyariah.java x

```
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 package Space;
6
7 /**
8 * @author hasan
9 */
10 public class Bank {
11     int Bunga = 10 ;
12     public void rasioBunga(){
13         System.out.println("Bunga_Bank " + Bunga + " % ");
14     }
15     public static void main(String [] args){
16         Bank B = new Bank();
17         B.rasioBunga();
18     }
19 }
20
21 }
22
```

Action Items Javadoc Finished building TugasPbo (run). 13:54:111 INS

TugasPbo - NetBeans IDE 8.2

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

Source History <default config...> Search (Ctrl+I)

Output - TugasPbo (run) x

...vl Demo1.java x Bank.java x BankPribadi.java x BankUmum.java x BankPasar.java x BankSyariah.java x

```
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 package Space;
6
7 /**
8 * @author hasan
9 */
10 public class BankPribadi extends Bank{
11     public static void main(String [] args){
12         Bank B = new Bank();
13         B.rasioBunga();
14     }
15 }
16
17 }
```

Action Items Javadoc Finished building TugasPbo (run). 15:20 INS

TugasPbo - NetBeans IDE 8.2

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

Source History <default config... > Search (Ctrl+F)

Output - TugasPbo (run) x

Bunga Bank 10 BUILD SUCCESSFUL (total time: 0 seconds)

```
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 Space;
7
8 /**
9 *
10 * @author hasan
11 */
12 public class BankUmum extends Bank{
13     public static void main(String [] args){
14         Bank B = new Bank();
15         B.rasioBunga();
16     }
17 }
```

Action Items Javadoc

15:24 INS

TugasPbo - NetBeans IDE 8.2

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

Source History <default config... > Search (Ctrl+F)

Output - TugasPbo (run) x

Bunga Bank 10 BUILD SUCCESSFUL (total time: 0 seconds)

```
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 Space;
7
8 /**
9 *
10 * @author hasan
11 */
12 public class BankPasar extends BankUmum{
13     public static void main(String [] args){
14         BankPasar B = new BankPasar();
15         B.rasioBunga();
16     }
17 }
```

Action Items Javadoc

17:2 INS

## Praktikum 9

TugasPbo - NetBeans IDE 8.2

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

Search (Ctrl+F)

Source History ... <default config... > Run Build Clean

Projects Demo1.java Bank.java BankPribadi.java BankUmum.java BankPasar.java BankSyariah.java

Output - TugasPbo (run) x

Bungk Bank 10 BUILD SUCCESSFUL (total time: 0 seconds)

```
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 Space;
7
8 /**
9  * @author hasan
10 */
11 public class BankSyariah extends BankUmum {
12     public static void main(String [] args){
13         BankSyariah B = new BankSyariah();
14         B.rasioBunga();
15     }
16 }
17
18
```

Action Items Javadoc

14:40 INS

lastProject - NetBeans IDE 8.2

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

<default config... > Search (Ctrl+I)

Projects Services

lastProject

Source Packages

Prak\_PBO

- Balok.java
- Bola.java
- Kerucut.java
- Kubus.java
- Lingkaran.java
- MethodMain.java
- Segitiga.java
- bangunRuang.java
- jajarGenjang.java
- methodAbstract.java
- persegi.java
- persegiPanjang.java
- prismaSegitiga.java

laundry

Test Packages

Libraries

Test Libraries

Ongkir

methodAbstract.java persegiPanjang.java jajarGenjang.java

```
1 /*  
2  * To change this license header, choose License Headers in Project Properties.  
3  * To change this template file, choose Tools | Templates  
4  * and open the template in the editor.  
5 */  
6 package Prak_PBO;  
7  
8 /**  
9 *  
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 getKel(){  
19         return keliling();  
20     }  
21 }  
22 }  
23 }
```

Action Items Javadoc

23:1 INS

lastProject - NetBeans IDE 8.2

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

<default config... > Search (Ctrl+I)

Projects Services

lastProject

Source Packages

Prak\_PBO

- Balok.java
- Bola.java
- Kerucut.java
- Kubus.java
- Lingkaran.java
- MethodMain.java
- Segitiga.java
- bangunRuang.java
- jajarGenjang.java
- methodAbstract.java
- persegi.java
- persegiPanjang.java
- prismaSegitiga.java

laundry

Test Packages

Libraries

Test Libraries

Ongkir

methodAbstract.java persegiPanjang.java jajarGenjang.java

```
1 /*  
2  * To change this license header, choose License Headers in Project Properties.  
3  * To change this template file, choose Tools | Templates  
4  * and open the template in the editor.  
5 */  
6 package Prak_PBO;  
7  
8 /**  
9 *  
10 */  
11 public class persegiPanjang extends methodAbstract {  
12     int panjang = 6;  
13     int lebar = 5;  
14     public int luas(){  
15         return panjang*lebar;  
16     }  
17     public int keliling(){  
18         return 2*(panjang + lebar);  
19     }  
20 }  
21 }  
22 }
```

Action Items Javadoc

19:17 INS

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

- Project Tree (Left):** Shows the project structure with packages like `lastProject`, `Prak_PBO`, `Test Packages`, `Libraries`, `Test Libraries`, and `Ongkir`. The `Prak_PBO` package contains classes such as `Balok.java`, `Bola.java`, `Kerucut.java`, `Kubus.java`, `Lingkaran.java`, `MethodMain.java`, `Segitiga.java`, `bangunRuang.java`, `JajarGenjang.java`, `methodAbstract.java`, `persegi.java`, `persegiPanjang.java`, and `prismaSegitiga.java`.
- Code Editor (Right):** Displays the `jajarGenjang.java` file. The code defines a class `jajarGenjang` that extends `methodAbstract`. It includes fields for `alas`, `tinggi`, and `AB`, `CD`, `BC`, `AD`. It also contains methods `luas()` and `keliling()`.
- Toolbar:** Standard NetBeans toolbar with icons for file operations.
- MenuBar:** File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help.
- Status Bar:** Action Items, Javadoc, 24:5, INS.

The screenshot shows the NetBeans IDE interface with the title "lastProject - NetBeans IDE 8.2". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help. The toolbar has icons for New Project, Open Project, Save, Build, Run, Stop, and Exit. The left sidebar shows the Projects tree with "lastProject" expanded, showing "Source Packages" containing "Prak\_PBO" with files like Bola.java, Koniut.java, Kubus.java, Lingkaran.java, MethodAbstract.java, Segitiga.java, bangunRuang.java, JajarGenjang.java, persegi.java, persegiPanjang.java, and prismaSegitiga.java. Below it are "Test Packages", "Libraries", "Test Libraries", and "Ongkir". The main editor area displays the "Lingkaran.java" file:

```
methodAbstract.java persegiPanjang.java JajarGenjang.java Lingkaran.java
1 /*
2  * To change this license header, choose License Headers in Project Properties.
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6 package Prak_PBO;
7
8 /**
9  *
10  */
11
12 public class Lingkaran extends methodAbstract{
13     int jari2 = 16;
14     int diameter = 8;
15     int pi = 22/7;
16
17
18     public int luas(){
19         return pi*diameter*diameter;
20     }
21     public int keliling(){
22         return pi*8;
23     }
24 }
25
```

The status bar at the bottom shows Action Items, Javadoc, and INS.

lastProject - NetBeans IDE 8.2

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

<default config... >

Projects lastProject Services

Source Packages

- Prak\_PBO
  - Balok.java
  - Bola.java
  - Kerucut.java
  - Kubus.java
  - Lingkaran.java
  - MethodMain.java
  - Segitiga.java
  - bangunRuang.java
  - jajarGenjang.java
  - methodAbstract.java
  - persegi.java
  - persegiPanjang.java
  - prismaSegitiga.java
- laundry
- Test Packages
- Libraries
- Test Libraries
- Ongkir

methodAbstract.java persegiPanjang.java jajarGenjang.java Lingkaran.java Segitiga.java

```
1  /*
2   * To change this license header, choose License Headers in Project Properties.
3   * To change this template file, choose Tools | Templates
4   * and open the template in the editor.
5   */
6  package Prak_PBO;
7
8  /**
9   *
10  */
11 public class Segitiga extends methodAbstract {
12     int alas = 8;
13     int tinggi = 6;
14     int sisi = 4;
15     double hasan = 0.5;
16
17     public int luas() {
18         return (int) (hasan*alas*tinggi);
19     }
20     public int keliling() {
21         return (sisi+sisi+sisi);
22     }
23 }
24
25
```

Action Items Javadoc Segitiga.java saved. 24:2 INS

lastProject - NetBeans IDE 8.2

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

<default config... >

Projects lastProject Services

Source Packages

- Prak\_PBO
  - Balok.java
  - Bola.java
  - Kerucut.java
  - Kubus.java
  - Lingkaran.java
  - MethodMain.java
  - Segitiga.java
  - bangunRuang.java
  - jajarGenjang.java
  - methodAbstract.java
  - persegi.java
  - persegiPanjang.java
  - prismaSegitiga.java
- laundry
- Test Packages
- Libraries
- Test Libraries
- Ongkir

methodAbstract.java persegiPanjang.java jajarGenjang.java Lingkaran.java Segitiga.java bangunRuang.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 Prak_PBO;
7
8  /**
9   *
10  */
11 public abstract class bangunRuang {
12     public abstract int luasPermukaan();
13     public abstract int volume();
14
15     public int getLuasper() {
16         return luasPermukaan();
17     }
18     public int getVol() {
19         return volume();
20     }
21 }
22
23
```

Action Items Javadoc 23:1 INS

lastProject - NetBeans IDE 8.2

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

<default config...>

Projects lastProject

- Source Packages
  - Prak\_PBO
    - Balok.java
    - Bola.java
    - Kerucut.java
    - Kubus.java
    - Lingkaran.java
    - MethodMain.java
    - Segitiga.java
    - bangunRuang.java
    - jajarGenjang.java
    - methodAbstract.java
    - persegi.java
    - persegiPanjang.java
    - prismaSegitiga.java
  - Test Packages
  - Libraries
  - Test Libraries
  - Ongkir

Services

methodAbstract.java persegiPanjang.java jajarGenjang.java Lingkaran.java Segitiga.java bangunRuang.java Balok.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 Prak_PBO;  
7  
8 /**  
9 *  
10 */  
11 public class Balok extends bangunRuang{  
12     int luas = 5;  
13     int tinggi = 6;  
14     int panjang = 4;  
15  
16     public int luasPermukaan(){  
17         return luas*tinggi*panjang;  
18     }  
19     public int volume(){  
20         return (2*luas*tinggi)+(2*luas*panjang)+(2*tinggi*panjang);  
21     }  
22 }  
23  
24
```

Action Items Javadoc Balok.java saved.

21:13 INS

lastProject - NetBeans IDE 8.2

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

<default config...>

Projects lastProject

- Source Packages
  - Prak\_PBO
    - Balok.java
    - Bola.java
    - Kerucut.java
    - Kubus.java
    - Lingkaran.java
    - MethodMain.java
    - Segitiga.java
    - bangunRuang.java
    - jajarGenjang.java
    - methodAbstract.java
    - persegi.java
    - persegiPanjang.java
    - prismaSegitiga.java
  - Test Packages
  - Libraries
  - Test Libraries
  - Ongkir

Services

methodAbstract.java persegiPanjang.java jajarGenjang.java Lingkaran.java Segitiga.java bangunRuang.java Kubus.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 Prak_PBO;  
7  
8 /**  
9 *  
10 */  
11 public class Kubus extends bangunRuang{  
12     int rusuk = 6;  
13     public int luasPermukaan(){  
14         return 6*rusuk*rusuk;  
15     }  
16     public int volume(){  
17         return rusuk*rusuk*rusuk;  
18     }  
19 }  
20  
21
```

Action Items Javadoc Kubus.java saved.

10:4 INS

lastProject - NetBeans IDE 8.2

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

<default config...> Search (Ctrl+I)

Projects lastProject Services

Source Packages

- Prak\_PBO
- Balok.java
- Bola.java
- Kerucut.java
- Kubus.java
- Lingkaran.java
- MethodMain.java
- Segitiga.java
- bangunRuang.java
- jajarGenjang.java
- methodAbstract.java
- persegi.java
- persegiPanjang.java
- prismaSegitiga.java

Test Packages

Libraries

Test Libraries

Ongkir

methodAbstract.java persegiPanjang.java jajarGenjang.java Lingkaran.java Segitiga.java bangunRuang.java Balok.java Kubus.java Bola.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 Prak_PBO;  
7  
8 /**  
9 *  
10 */  
11 public class Bola extends bangunRuang{  
12     int jari2 = 10;  
13     int pi = 22/7;  
14  
15     public int luasPermukaan(){  
16         return 4*pi*jari2*jari2;  
17     }  
18     public int volume(){  
19         return 4/3*pi*jari2*jari2*jari2;  
20     }  
21 }  
22 }  
23 }
```

Action Items Javadoc Bola.java saved. 20:37 INS

lastProject - NetBeans IDE 8.2

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

<default config...> Search (Ctrl+I)

Projects lastProject Services

Source Packages

- Prak\_PBO
- Balok.java
- Bola.java
- Kerucut.java
- Kubus.java
- Lingkaran.java
- MethodMain.java
- Segitiga.java
- bangunRuang.java
- jajarGenjang.java
- methodAbstract.java
- persegi.java
- persegiPanjang.java
- prismaSegitiga.java

Test Packages

Libraries

Test Libraries

Ongkir

persegiPanjang.java jajarGenjang.java Lingkaran.java Segitiga.java bangunRuang.java Balok.java Kubus.java Bola.java Kerucut.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 Prak_PBO;  
7  
8 /**  
9 *  
10 */  
11 public class Kerucut extends bangunRuang {  
12     int pi = 22/7;  
13     int jari2 = 5 ;  
14     int tinggi = 4;  
15     double rumus = 0.3;  
16     public int luasPermukaan(){  
17         return (pi*jari2*jari2)+(pi*jari2*tinggi);  
18     }  
19     public int volume(){  
20         return (int) (rumus*pi*jari2*jari2*tinggi);  
21     }  
22 }  
23 }  
24 }
```

Action Items Javadoc Kerucut.java saved. 24:1 INS

```
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 Prak_PBO;
7
8  /**
9  *
10 */
11
12 public class prismaSegitiga extends bangunRuang{
13     int luas_alas = 5;
14     int tinggi = 7;
15     int keliling_alas = 6;
16     int luas_alas_segitiga = 6;
17     public int luasPermukaan(){
18         return (keliling_alas*tinggi)+(2*luas_alas_segitiga);
19     }
20     public int volume(){
21         return luas_alas*tinggi;
22     }
23 }
24
```

## Praktikum 10

PBO - NetBeans IDE 8.2

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

ActivityAnimal.java Mamala.java ActivityLampu.java ApikasLampu.java Lampu.java

Services Projects Files

Bab10

- ActivityAnimal.java
- ActivityLampu.java
- ApikasLampu.java
- Lampu.java
- Mamala.java
- NewClass.java

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 Bab10;
7
8 /**
9  *
10 * @author LABRPL-28
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 = 1;
16     public abstract void matikanLampu();
17     public abstract void hidupkanLampu();
18 }
19

```

Navigator

Members

- HidupkanLampu()
- matikanLampu()
- LAMPU\_HIDUP : int
- LAMPU\_MATI : int
- LAMPU\_REDUP : int

Output

PBO (run) #3 running... 3:38 PM 12/6/2019 15:40 INS

PBO - NetBeans IDE 8.2

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

ActivityAnimal.java Mamala.java ActivityLampu.java ApikasLampu.java Lampu.java

Services Projects Files

Bab10

- ActivityAnimal.java
- ActivityLampu.java
- ApikasLampu.java
- Lampu.java
- Mamala.java
- NewClass.java

Source History

```

11 /**
12  * To change this license header, choose License Headers in Project Properties.
13  * To change this template file, choose Tools | Templates.
14  * and open the template in the editor.
15 */
16 public class Lampu implements ActivityLampu {
17     public int statusLampu;
18
19     public void matikanLampu() {
20         if (statusLampu==0) {
21             System.out.println("Lampu sudah dalam kondisi mati");
22         } else if (statusLampu==1) {
23             statusLampu=0;
24             System.out.println("Lampus sudah dimatikan");
25         }
26     }
27
28     public void hidupkanLampu() {
29         if (statusLampu==1) {
30             System.out.println("Lampu sudah dinyalakan \n***");
31         } else {
32             statusLampu=1;
33             System.out.println("Lampus sudah dalam kondisi menyala");
34         }
35     }
36
37     public void redupkanLampu() {
38         if (statusLampu==1) {
39             System.out.println("Lampu dalam keadaan menyala");
40         } else {
41             statusLampu = +2;
42             System.out.println("Lampu dalam keadaan redup");
43         }
44     }
45
46     public int setSaklar(int saklar) {
47         return statusLampu = saklar;
48     }
49 }
50

```

Navigator

Members

- Lampu :: ActivityLampu
- hidupkanLampu()
- matikanLampu()
- redupkanLampu()
- setSaklar(int saklar) : int
- statusLampu : int

Output

PBO (run) #3 running... 3:38 PM 12/6/2019 41:6 INS

PBO - NetBeans IDE 8.2

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

Services Projects Files ActivityAnimal.java Mamala.java ActivityLampu.java ApikasLampu.java Lampu.java

Bab10  
ActivityAnimal.java  
ActivityLampu.java  
ApikasLampu.java  
Lampu.java  
Mamala.java  
NewClass.java

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 Bab10;
7
8 /**
9  *
10 * @author LABRPL-28
11 */
12 import java.util.Scanner;
13 public class ApikasLampu {
14     public static void main(String[] args){
15         Lampu l = new Lampu();
16         Scanner sc = new Scanner(System.in);
17         l.statusLampu = l.setSaklar(0);
18         System.out.println("Status Lampu = " + l.statusLampu + "\nketikan");
19         System.out.println("1 untuk menyalaikan lampu\n0 untuk mematikan lampu\n2 untuk meredupkan lampu");
20         int a = sc.nextInt();
21         if(l.setSaklar(a)==0){
22             l.matiakanLampu();
23         }else if(l.setSaklar(a)==1){
24             l.hidupkanLampu();
25         }else{
26             l.redupkanLampu();
27         }
28     }
29 }
30 
```

Navigator Members <empty>

ApikasLampu  
main(String[] args)

Output

PBO (run) #3 running... 3:39 PM 12/6/2019

PBO - NetBeans IDE 8.2

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

Services Projects Files ActivityAnimal.java Mamala.java ActivityLampu.java ApikasLampu.java Lampu.java

Bab10  
ActivityAnimal.java  
ActivityLampu.java  
ApikasLampu.java  
Lampu.java  
Mamala.java  
NewClass.java

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 Bab10;
7
8 /**
9  *
10 * @author LABRPL-28
11 */
12 import java.util.Scanner;
13 public class ApikasLampu {
14     public static void main(String[] args){
15         Lampu l = new Lampu();
16         Scanner sc = new Scanner(System.in);
17         l.statusLampu = l.setSaklar(0);
18         System.out.println("Status Lampu = " + l.statusLampu + "\nketikan");
19         System.out.println("1 untuk menyalaikan lampu\n0 untuk mematikan lampu\n2 untuk meredupkan lampu");
20         int a = sc.nextInt();
21         if(l.setSaklar(a)==0){
22             l.matiakanLampu();
23         }else if(l.setSaklar(a)==1){
24             l.hidupkanLampu();
25         }else{
26             l.redupkanLampu();
27         }
28     }
29 }
30 
```

Output

PBO (run) #3 PBO (run) #4

run:  
Status Lampu = 0  
ketikan  
1 untuk menyalaikan lampu  
0 untuk mematikan lampu  
2 untuk meredupkan lampu  
2  
Lampu dalam keadaan redup  
BUILD SUCCESSFUL (total time: 1 second)

PBO (run) #3 running... 3:43 PM 12/6/2019

# Praktikum 11

```
public class OuterDemo {  
    int num;  
  
    private class InnerDemo{  
        private void print(){  
            System.out.println("Ini merupakan method InnerClass");  
        }  
    }  
    void displayInner(){  
        InnerDemo inner = new InnerDemo();  
        inner.print();  
    }  
}  
  
public class MyClass {  
    public static void main(String[] args){  
        OuterDemo outer = new OuterDemo();  
        outer.displayInner();  
    }  
}
```

```
- Modul11 (run)  ✘  
run:  
Ini merupakan method InnerClass  
BUILD SUCCESSFUL (total time: 0 seconds)
```

```
public class OuterDemo2 {
    private int num = 175;
    public class Inner_Demo{
        public int getNum(){
            System.out.println("Ini adalah nilai dari variable private OuterDemo");
            return num;
        }
    }
}
/*
public class OuterDemoMain {
    public static void main(String[] args){
        OuterDemo2 outer = new OuterDemo2();
        OuterDemo2.Inner_Demo inner = outer.new Inner_Demo();
        System.out.println(inner.getNum());
    }
}
```

```
t - Modul11 (run)  ✘
run:
Ini adalah nilai dari variable private OuterDemo
175
BUILD SUCCESSFUL (total time: 0 seconds)
```

NetBeans IDE 8.2

```

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 package latihan;
6 
7 /**
8 * @author badahitan
9 */
10 public class NestedClass {
11     String name = "Iboul Faim Wahidiaz";
12     String nim = "L200180030";
13     public void printName(){
14         System.out.println("Nama : " + name + "\nNIM : " + nim);
15     }
16     static class StaticNestedClass{
17         public NestedClass n = new NestedClass();
18         n.printName();
19     }
20     static String jurusan = "Informatika";
21 }
22 
23 public class InnerClass{
24     NestedClass.StaticNestedClass jur = new NestedClass.StaticNestedClass();
25     public void Jurusan(){
26         System.out.println("Jurusan : " + jur.jurusan);
27     }
28 }
29 
30 }
31 }
32 }
33 }
34 
```

**Jurusan - Navigator**

- Members
  - NestedClass
    - printName()
      - name: String
      - nim: String
    - StaticNestedClass
    - InnerClass
  - StaticNestedClass
    - myName()
      - jurusan: String

Latihan - NetBeans IDE 8.2

```

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 package latihan;
6 
7 /**
8 * @author badahitan
9 */
10 public class Tampil {
11     public static void main (String[] args){
12         NestedClass nc = new NestedClass();
13         NestedClass.StaticNestedClass snc = new NestedClass.StaticNestedClass();
14         snc.myName();
15         NestedClass.InnerClass inc = nc.new InnerClass();
16         inc.Jurusan();
17     }
18 }
19 
```

**main - Navigator**

- Members
  - Tampil
    - main(String[] args)

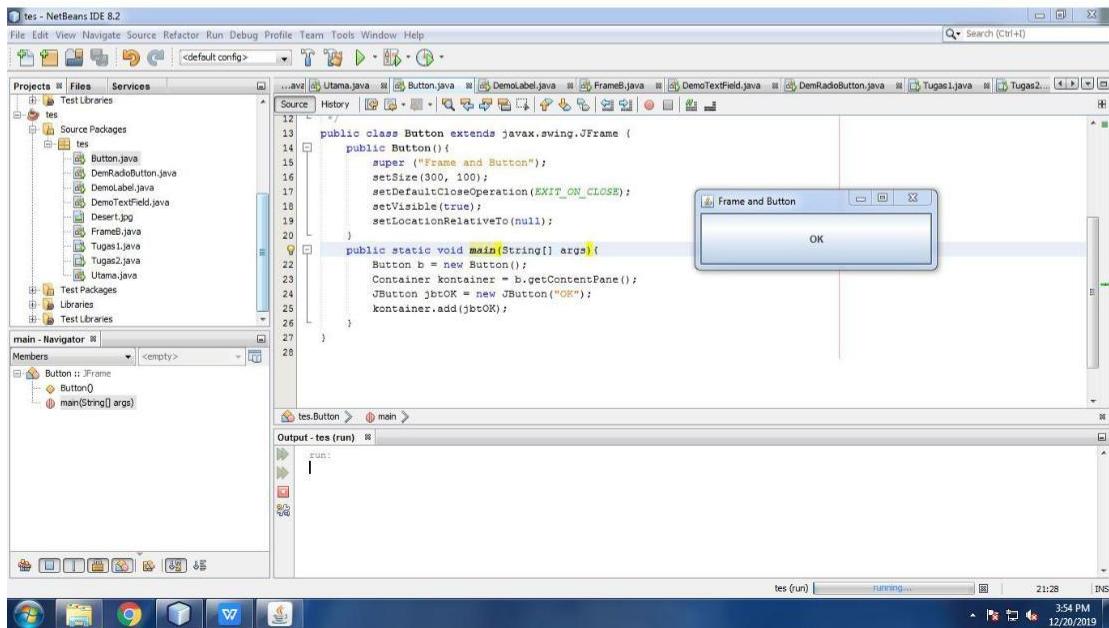
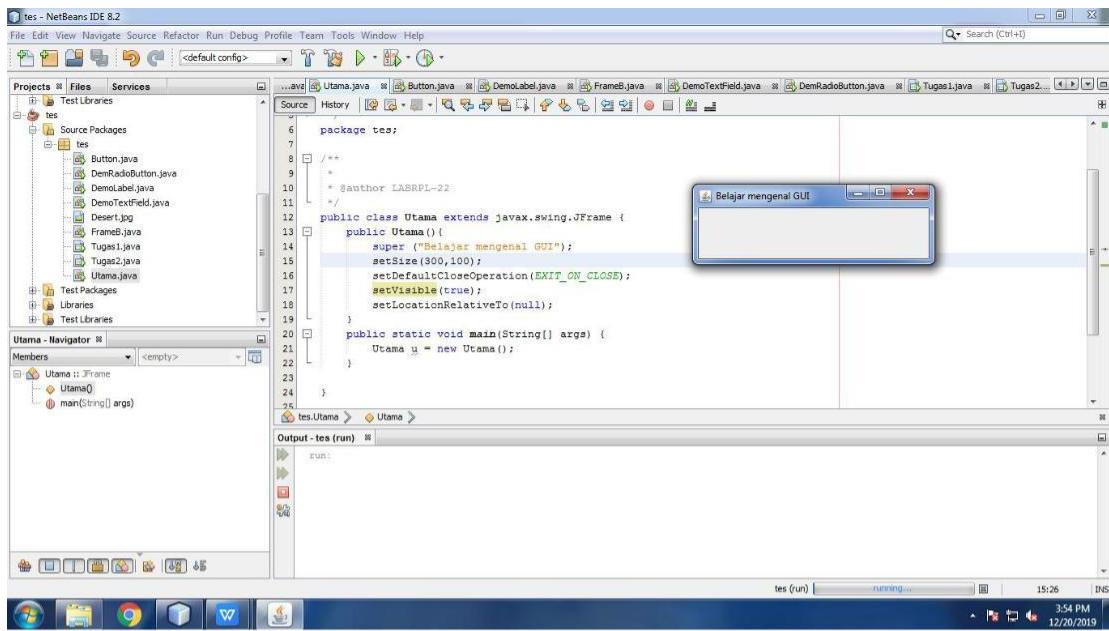
**Output - Latihan (run)**

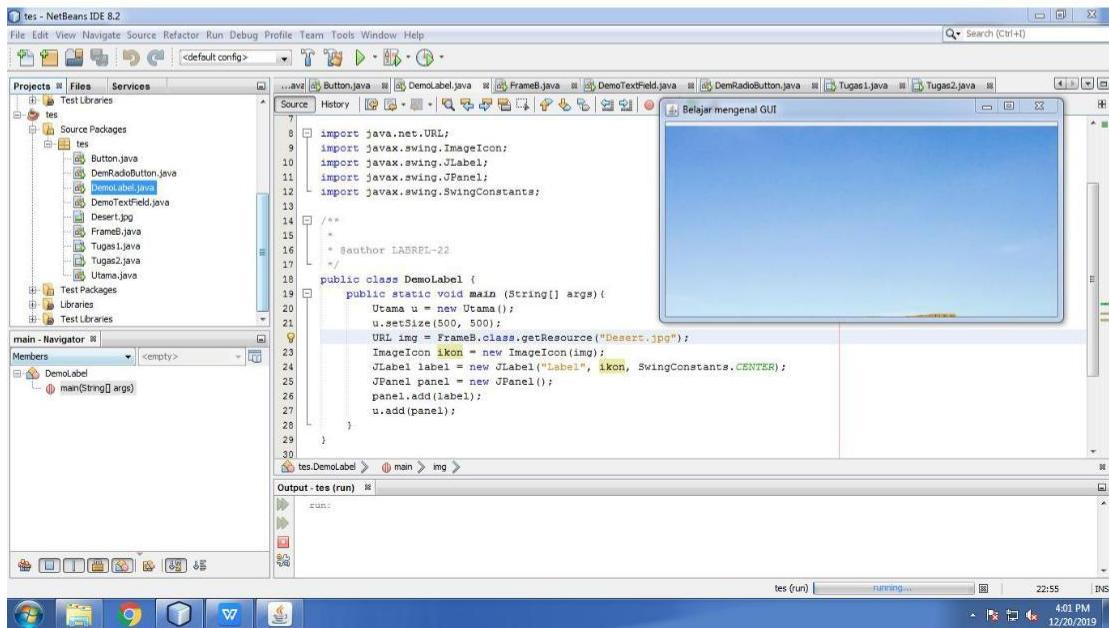
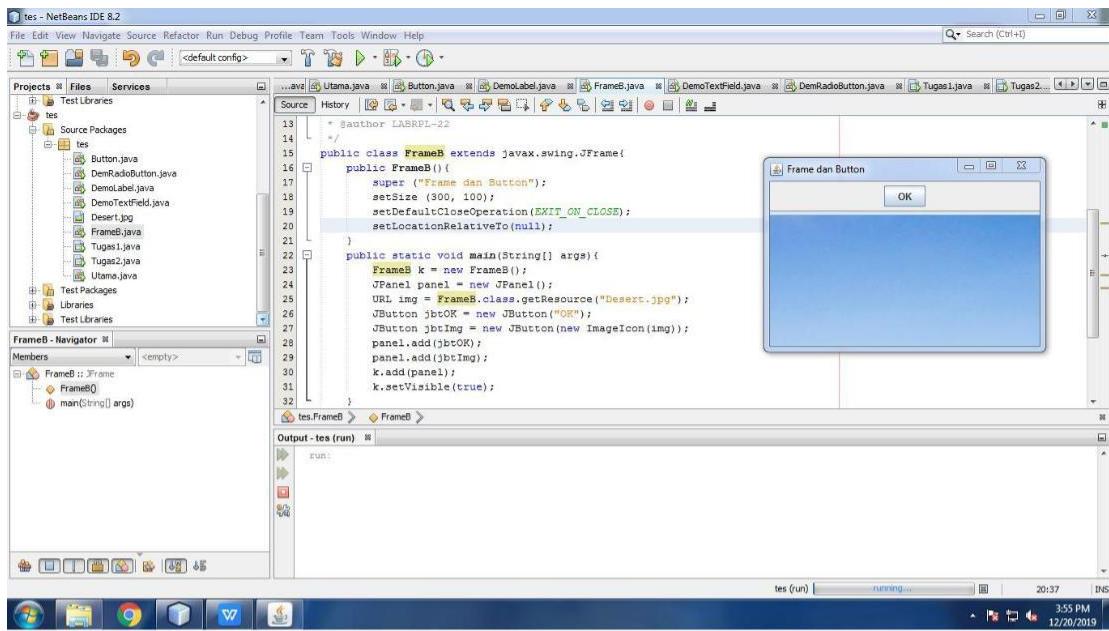
```

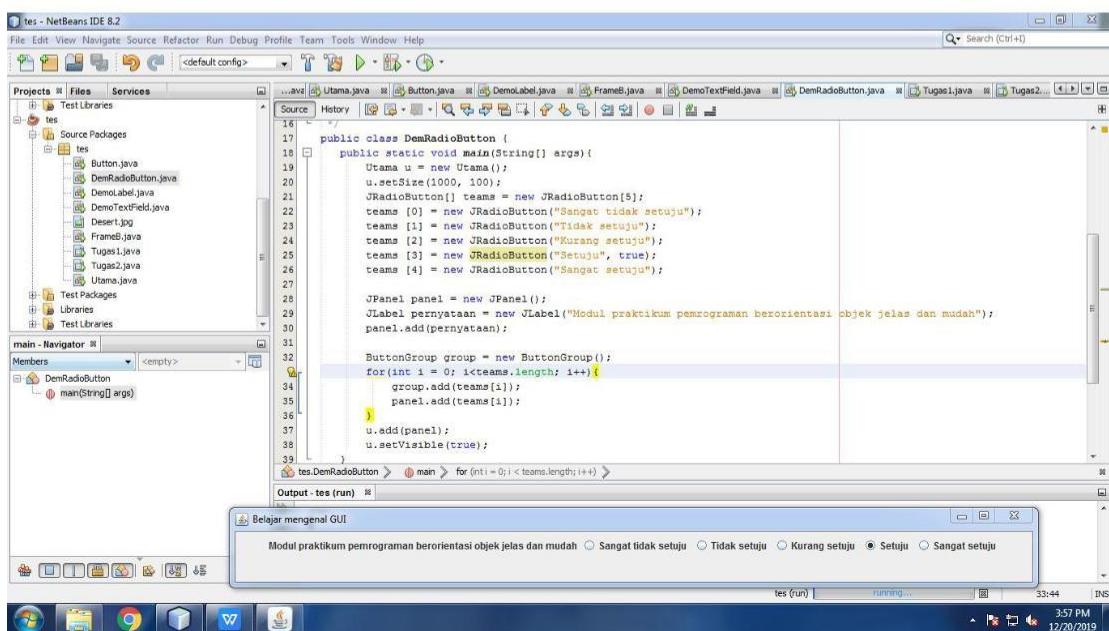
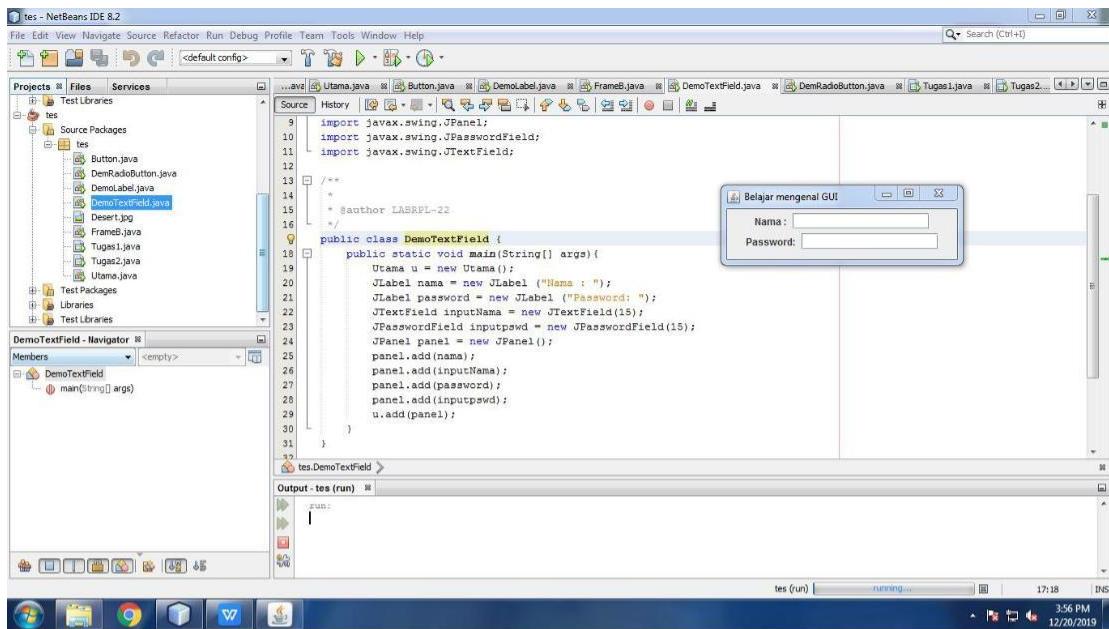
Name : Iboul Faim Wahidiaz
Jurusan : Informatika
BUILD SUCCESSFUL (total time: 0 seconds)

```

## Praktikum 12







Tugas

