

Local Disk (E):

File Home Share View

Program.java - Notepad

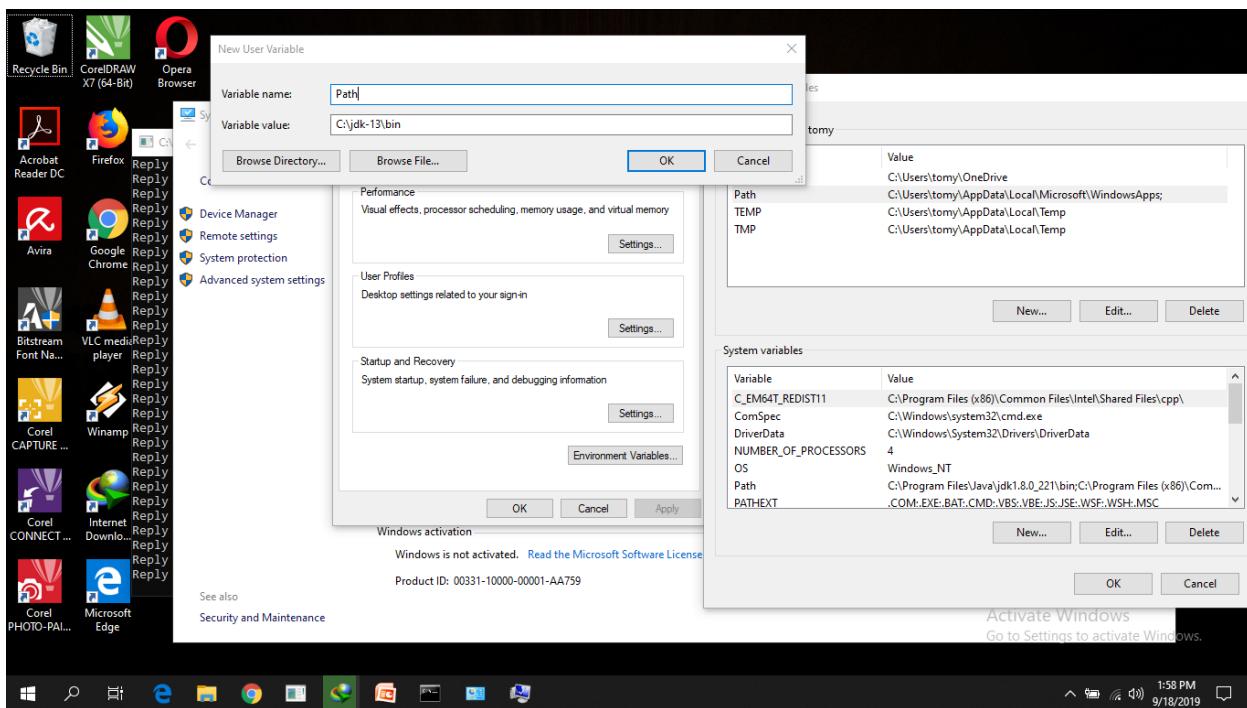
```
public class Program {
    public static void main(String[] args) {
        System.out.println("Hello World");
    }
}
```

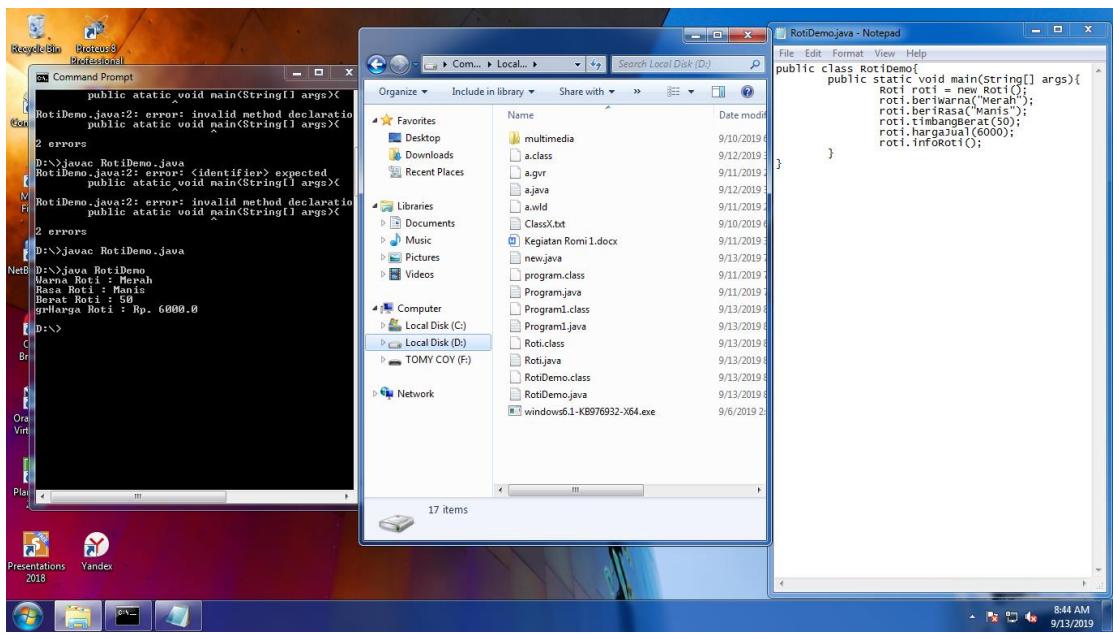
Command Prompt

```
Microsoft Windows [Version 10.0.18362.356]
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C:\Users\tomy>e:
E:>javac Program.java
E:>
E:>java Program
Hello World
E:>
```

Ln 1, Col 1 100% Windows (CRLF) UTF-8





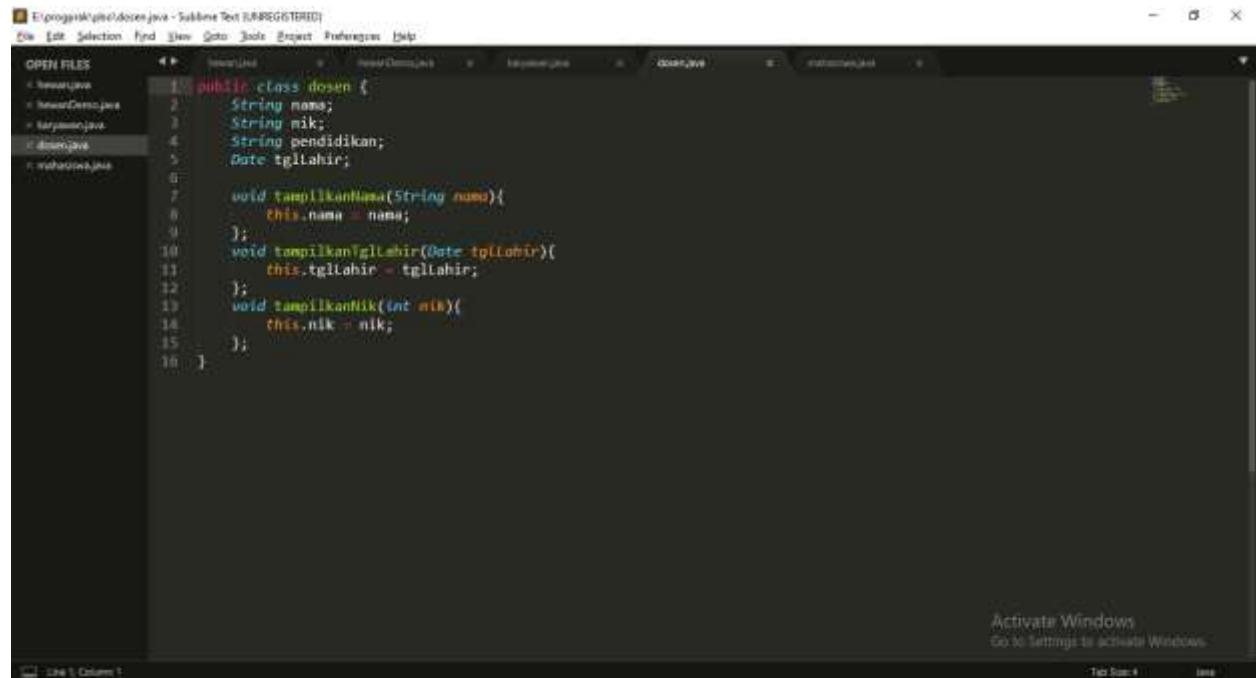
PBO Praktikum Modul ke-2

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NIM : L200180068

Kelas : B

Class Dosen



The screenshot shows a Sublime Text editor window with the following Java code:

```
1 package dosen;
2
3 public class dosen {
4     String nama;
5     String nik;
6     String pendidikan;
7     Date tglahir;
8
9     void tampilanNama(String name){
10         this.nama = name;
11     };
12     void tampilanTglahir(Date tglahir){
13         this.tglahir = tglahir;
14     };
15     void tampilanNik(int nik){
16         this.nik = nik;
17     };
18 }
```

The code defines a class named `dosen` with three instance variables: `nama`, `nik`, and `pendidikan`. It contains three methods: `tampilanNama`, `tampilanTglahir`, and `tampilanNik`, each taking a parameter and setting it to the corresponding instance variable.

Class karyawan

The screenshot shows a Sublime Text window with the title "E:\program\kplik\karyawan.java - Sublime Text (UNREGISTERED)". The file content is as follows:

```
1 public class karyawan {
2     String nama;
3     String alamat;
4     String jabatan;
5     Double gaji;
6
7     void tampilkanNama(String name){
8         this.nama = name;
9     };
10    void tampilkanAlamat(String alamat){
11        this.alamat = alamat;
12    };
13    void tampilkanJabatan(String jabatan){
14        this.jabatan = jabatan;
15    };
16    void tampilkanGaji(Double gaji){
17        this.gaji = gaji;
18    };
19 }
```

The status bar at the bottom left shows "Line 1 Column 1". The status bar at the bottom right shows "Activate Windows Go to Settings to activate Windows".

Class mahasiswa

The screenshot shows a Sublime Text window with the title "E:\program\kplik\mahasiswa.java - Sublime Text (UNREGISTERED)". The file content is as follows:

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

The status bar at the bottom left shows "Line 1 Column 1". The status bar at the bottom right shows "Activate Windows Go to Settings to activate Windows".

Class hewan

The screenshot shows a Sublime Text window with the title "E:\program\kpi\hewan.java - Sublime Text (UNREGISTERED)". The code defines a class named "hewan" with the following methods:

```
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 }
```

The status bar at the bottom indicates "Line 20, Column 2". A watermark for "Activate Windows" is visible in the center of the screen.

Class hewanDemo

The screenshot shows a Sublime Text window with the title "E:\program\kpi\hewanDemo.java - Sublime Text (UNREGISTERED)". The code defines a class named "hewanDemo" with a main method that creates two instances of "hewan" and calls their methods:

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

The status bar at the bottom indicates "Line 11, Column 2". A watermark for "Activate Windows" is visible in the center of the screen.

Hasil

```
Command Prompt
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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>java hewanDemo
Nama Hewan : Harimau
Jumlah Kaki : 4
Makanan : daging
Hewan type : Karnivora

Nama Hewan : Kerbau
Jumlah Kaki : 4
Makanan : Rumput
Hewan type : Herbivora

E:\progprak\pbo>
```

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A screenshot of the NetBeans IDE 8.0.2 interface. The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help, and a search bar. The left sidebar shows the Projects, Files, and Services tabs, with 'Modul 3' selected. Under 'Modul 3', there are Source Packages containing 'DemoProgram.java', 'DemoVariable.java', 'DemoLocalVariable.java', 'LocalVariable.java', 'MethodParameter.java', 'Nilai.java', 'NonVariable.java', 'Pegawai.java', 'StaticVariable.java', and 'StaticVariableAccess.java'. Test Packages, Libraries, and Test Libraries are also listed. The Navigator pane shows variables like 'nilaiWajib', 'nilaiTotal', 'nilaiUTS', 'nilaiUAS', 'nilaiTugas', 'nilaiRata', 'nilaiUAS', and 'nilaiUTS'. The main editor window displays Java code for calculating BMI. The code defines a class 'Nilai' with methods for calculating total scores and averages. It uses static variables 'nilaiUTS', 'nilaiUAS', and 'nilaiTugas' to store values from the 'Nilai' package. The code includes imports for 'java.util.Scanner' and 'java.lang.Math'. The code is annotated with Javadoc comments explaining the purpose of each method and variable.

Module 3 - NetBeans IDE 8.0.2

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

Projects Files Services

Module 3

Source Packages

- Default package
- DeclsParamet.java
- DeclsVariable.java
- InstaVariable.java
- LocalVariable.java
- MethodParameter.java
- Nil.java
- NullMethod.java
- Pegawai.java
- StaticVariable.java
- StaticVariableAccess.java

Test Packages

- default package

Libraries

- SDK 1.8 [Default]
- Test Libraries

DeclsVariable - Navigator

Members

- DeclsVariable
- main([Ljava.lang.String;)

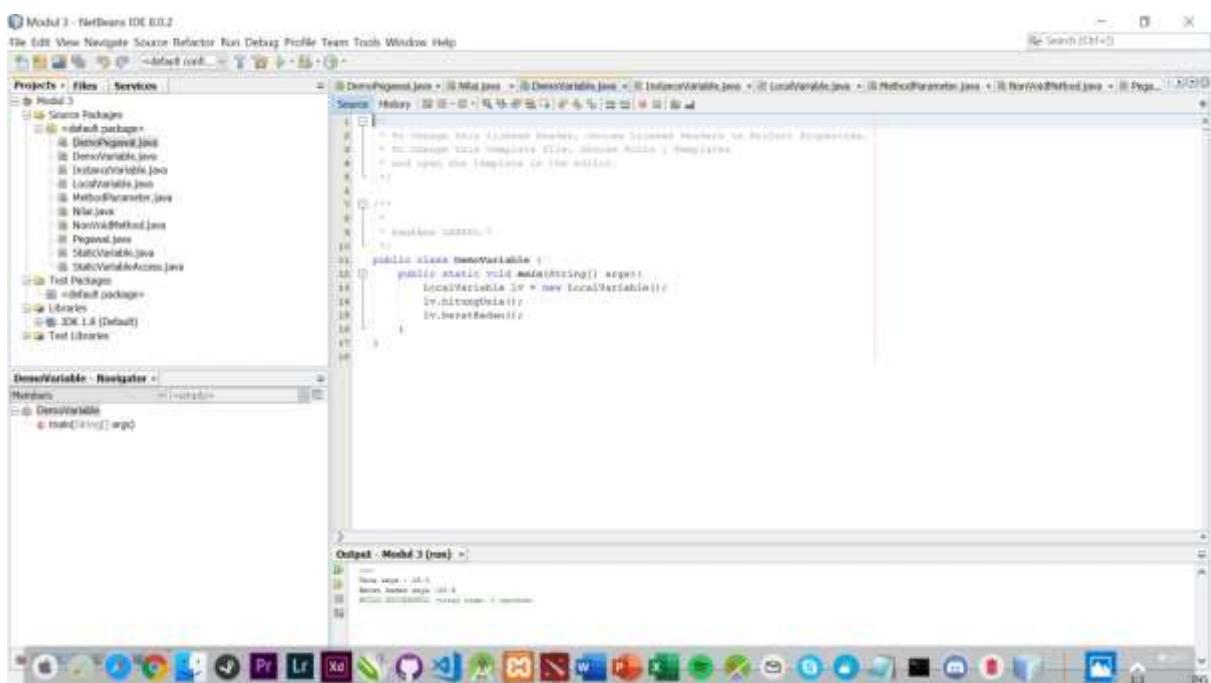
Source History

DeclsParamet.java

```
4 // by changing this license header, choose licensed headers to be used in this file.
5 // Change file template for this file (File | Settings | File Templates).
6 // and open the template in the editor.
7
8
9
10
11 public class DeclsVariable {
12     public static void main(String[] args) {
13         InstaVariable iv = new LocalVariable();
14         iv.nilang();
15         iv.beratBadan();
16     }
17 }
```

Output - Module 3 (run) -

```
Java code: 14.0
Java code: 14.0
Main Method: main([Ljava.lang.String;)
```



Module 3 - NetBeans IDE 8.0.2

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

Projects Files Services

Module 3

Source Packages

- Default package
- DeclsParamet.java
- DeclsVariable.java
- InstaVariable.java
- LocalVariable.java
- MethodParameter.java
- Nil.java
- NullMethod.java
- Pegawai.java
- StaticVariable.java
- StaticVariableAccess.java

Test Packages

- default package

Libraries

- SDK 1.8 [Default]
- Test Libraries

InstaVariable - Navigator

Members

- InstaVariable
- beratBadan()
- nilang()
- total

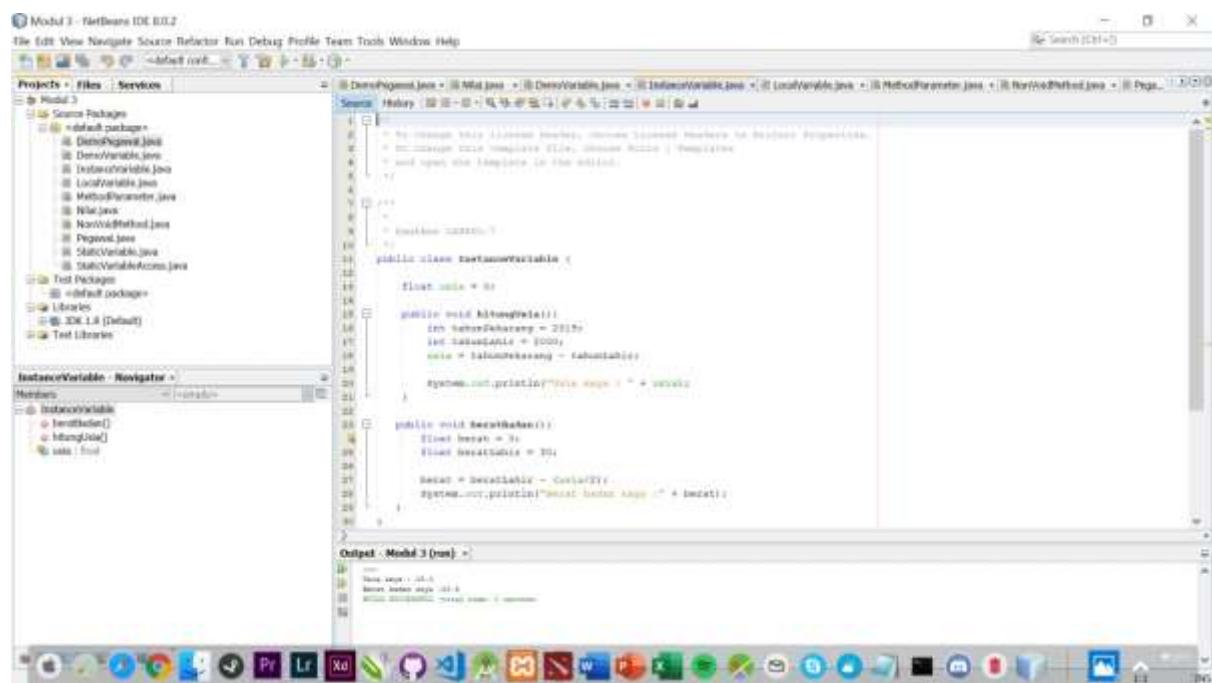
Source History

DeclsParamet.java

```
4 // by changing this license header, choose licensed headers to be used in this file.
5 // Change file template for this file (File | Settings | File Templates).
6 // and open the template in the editor.
7
8
9
10
11 public class InstaVariable {
12     float total = 0;
13
14     public void nilang();
15     int beratBadan = 200;
16     int balansante = 100;
17     total = balansante - beratBadan;
18
19     System.out.println("Nilai koper : " + total);
20
21
22     public void beratBadan();
23     float berat = 30;
24     float beratBadan = 10;
25
26     berat = beratBadan - berat;
27     System.out.println("Berat badan koper : " + berat);
28 }
```

Output - Module 3 (run) -

```
Java code: 14.0
Java code: 14.0
Main Method: main([Ljava.lang.String;)
```



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Kelas : B

Laporan Praktikum PBO

Latihan 1.

Private Modifier tidak dapat diakses di class lain karena private modifier hanya dapat diakses pada class tersebut

```
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 privatemodifier;
6
7 /**
8 * Author: LAMTEL
9 */
10
11 public class PrivateModifier {
12     private String name;
13     private int age;
14
15     public void printInfo() {
16         System.out.println("private modifier");
17     }
18
19     public static void main(String[] args) {
20         PrivateModifier p = new PrivateModifier();
21
22         p.printInfo();
23     }
24
25 }
26
27 
```

Latihan 2.

Terjadi eror karena Default Modifier tidak dapat diakses pada package lain.

PrivateModifier - NetBeans IDE 8.0.2

```
1 package bari;
2
3 // To change this template, choose Tools | Templates.
4 // To change this license header, choose License Headers in Project Properties.
5 // To change this file, choose Tools | Templates.
6 // and open the template in the editor.
7
8 package privatemodifiers;
9
10
11 public class DefaultModifier {
12     int a = 1;
13     int b = 2;
14     int c;
15     void jumlah() {
16         c = a + b;
17         System.out.println(c);
18     }
19 }
```

PrivateModifier - NetBeans IDE 8.0.2

```
1 package bari;
2
3 // To change this template, choose Tools | Templates.
4 // To change this license header, choose License Headers in Project Properties.
5 // To change this file, choose Tools | Templates.
6 // and open the template in the editor.
7
8 package bari;
9
10 public class MainDM {
11     public static void main(String[] args) {
12         DefaultModifier n = new DefaultModifier();
13         n.jumlah();
14     }
15 }
```

Latihan 3

Jika program dijalankan akan keluar output protected modifier.

The screenshot shows the NetBeans IDE interface with the title "PrivateModifier - NetBeans IDE 8.0.2". The left pane displays a project structure under "Source Packages" for the "java" package, containing ProtectedModifier.java, PublicModifier.java, accessM1.java, accessP1.java, and accessM2.java. The right pane shows the source code for ProtectedModifier.java:

```
1 // To change this license header, choose License Headers in Project Properties.
2 // To change this template file, choose Tools | Templates.
3 // and open the template in the editor.
4
5 package java;
6
7 /**
8 * Author: DAPPT
9 */
10 public class ProtectedModifier {
11     protected void printInfo() {
12         System.out.println("Protected modifier");
13     }
14     protected void sendMessage() {
15         System.out.println("This is a message");
16     }
17 }
18
```

The screenshot shows the NetBeans IDE interface with the title "PrivateModifier - NetBeans IDE 8.0.2". The left pane displays a project structure under "Source Packages" for the "java" package, containing ProtectedModifier.java, PublicModifier.java, accessM1.java, accessP1.java, and accessM2.java. The right pane shows the source code for accessM2.java:

```
1 // To change this license header, choose License Headers in Project Properties.
2 // To change this template file, choose Tools | Templates.
3 // and open the template in the editor.
4
5 package java;
6
7 /**
8 * Author: DAPPT
9 */
10 public class accessM2 {
11     public static void main(String[] args) {
12         ProtectedModifier x = new ProtectedModifier();
13         x.sendMessage();
14     }
15 }
16
```

Latihan 4.

PrivateModifier - NetBeans IDE 8.0.2

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

Project Files Services

Source history

```
1 package bertz;
2
3 /**
4 * Author: LIAHFL
5 */
6
7 public class PublicModifier {
8     public int a = 2;
9     public int b = 3;
10    public int c = 5;
11    public void kali() {
12        int d = a*b*c;
13        System.out.println("Hasil Kali = " + d);
14    }
15    public void tambah() {
16        int z = a+b+c;
17        System.out.println("Hasil Tambah = " + z);
18    }
19    public void kurang() {
20        int w = a-b-c;
21        System.out.println("Hasil Kurang = " + w);
22    }
23    public void bagi() {
24        int v = a/b/c;
25        System.out.println("Hasil Bagi = " + v);
26    }
27    public void rata_rata() {
28        int f = (a+b+c)/3;
29        System.out.println("Hasil Rata-Rata = " + f);
30    }
31 }
```

PrivateModifier - NetBeans IDE 8.0.2

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

Project Files Services

Source history

```
1 // To change this license header, choose License Headers in Project Properties.
2 // To change this template file, choose Tools | Templates
3 // and open the template in the editor.
4
5 package bertz;
6
7 /**
8 * Author: LIAHFL
9 */
10
11 public class Main {
12     public static void main(String[] args) {
13         PublicModifier k = new PublicModifier();
14         k.kali();
15         k.tambah();
16         k.bagi();
17         k.rata_rata();
18     }
19 }
```

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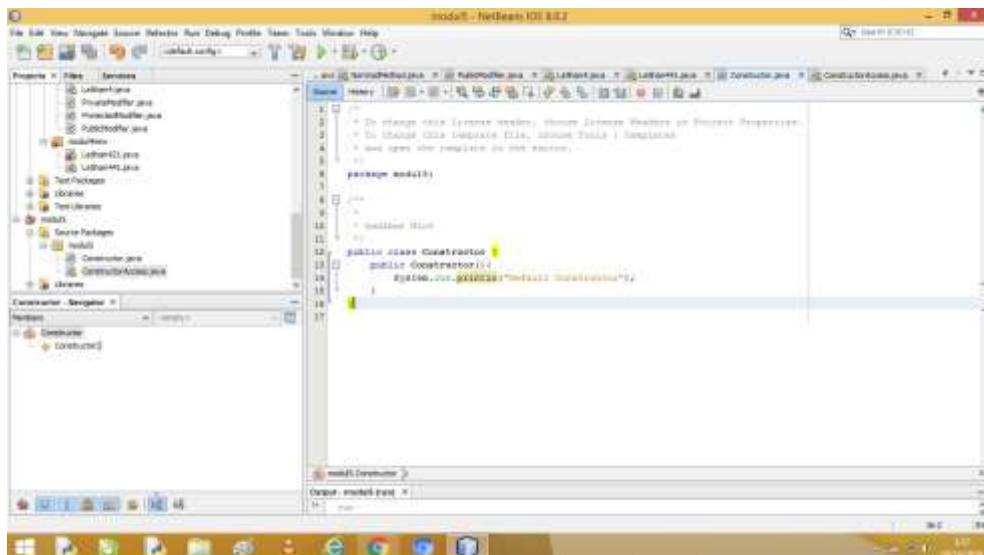
MODUL 5

CONSTRUCTOR

PRAKTIKUM PEMROGRAMAN BERORIENTASI OBJEK

• 5.1 DEFAULT CONSTRUCTOR

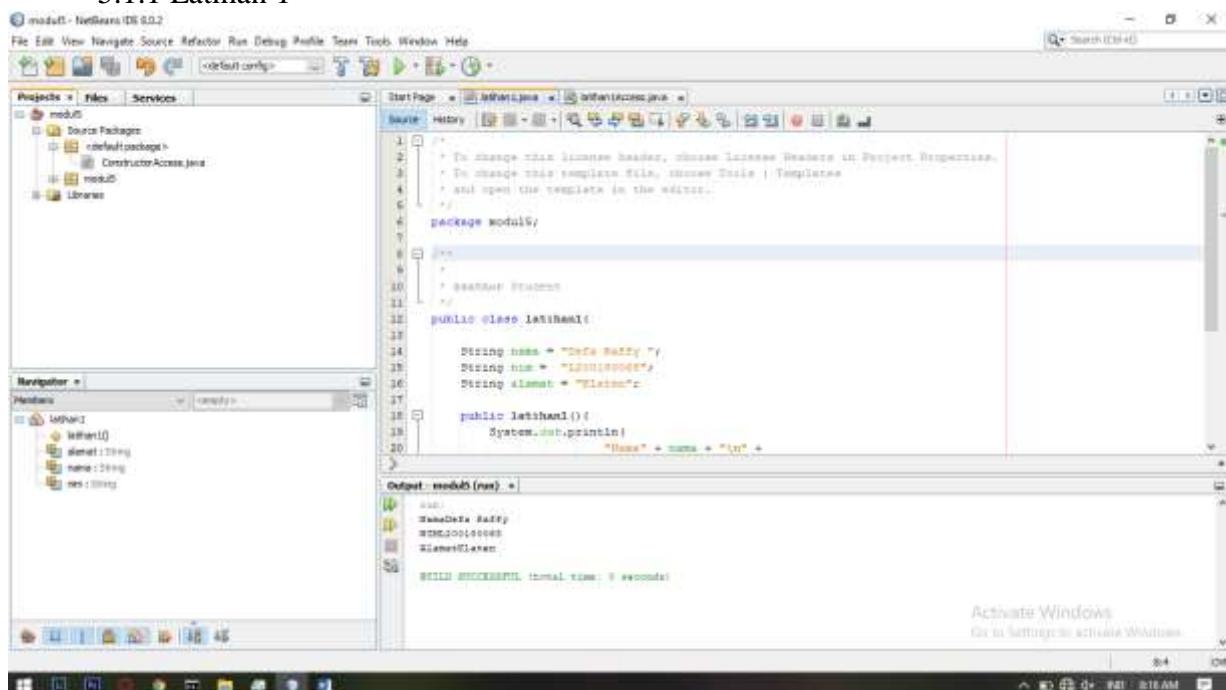
- Program 1. Default Constructor



The screenshot shows the NetBeans IDE interface with the code editor open. The code is as follows:

```
modul1 - NetBeans IDE 8.0.2
File Edit View Navigate Source Detectors Run Debug Profile Tools Window Help
Source Editor Help
L1L2L3L4L5L6L7L8L9L10L11L12L13L14L15L16L17L18L19L20L21L22L23L24L25L26L27L28L29L30L31L32L33L34L35L36L37L38L39L40L41L42L43L44L45L46L47L48L49L50L51L52L53L54L55L56L57L58L59L60L61L62L63L64L65L66L67L68L69L70L71L72L73L74L75L76L77L78L79L80L81L82L83L84L85L86L87L88L89L89L90L91L92L93L94L95L96L97L98L99L100L101L102L103L104L105L106L107L108L109L110L111L112L113L114L115L116L117L118L119L120L121L122L123L124L125L126L127L128L129L130L131L132L133L134L135L136L137L138L139L140L141L142L143L144L145L146L147L148L149L150L151L152L153L154L155L156L157L158L159L160L161L162L163L164L165L166L167L168L169L170L171L172L173L174L175L176L177L178L179L180L181L182L183L184L185L186L187L188L189L189L190L191L192L193L194L195L196L197L198L199L199L200L201L202L203L204L205L206L207L208L209L209L210L211L212L213L214L215L216L217L218L219L219L220L221L222L223L224L225L226L227L228L229L229L230L231L232L233L234L235L236L237L238L239L239L240L241L242L243L244L245L246L247L248L249L249L250L251L252L253L254L255L256L257L258L259L259L260L261L262L263L264L265L266L267L268L269L269L270L271L272L273L274L275L276L277L278L278L279L279L280L281L282L283L284L285L286L287L288L289L289L290L291L292L293L294L295L296L297L298L299L299L300L301L302L303L304L305L306L307L308L309L309L310L311L312L313L314L315L316L317L318L319L319L320L321L322L323L324L325L326L327L328L329L329L330L331L332L333L334L335L336L337L338L339L339L340L341L342L343L344L345L346L347L348L349L349L350L351L352L353L354L355L356L357L358L359L359L360L361L362L363L364L365L366L367L368L369L369L370L371L372L373L374L375L376L377L378L378L379L379L380L381L382L383L384L385L386L387L388L389L389L390L391L392L393L394L395L396L397L398L399L399L400L401L402L403L404L405L406L407L408L409L409L410L411L412L413L414L415L416L417L418L419L419L420L421L422L423L424L425L426L427L428L429L429L430L431L432L433L434L435L436L437L438L439L439L440L441L442L443L444L445L446L447L448L449L449L450L451L452L453L454L455L456L457L458L459L459L460L461L462L463L464L465L466L467L468L469L469L470L471L472L473L474L475L476L477L478L478L479L479L480L481L482L483L484L485L486L487L488L489L489L490L491L492L493L494L495L496L497L498L499L499L500L501L502L503L504L505L506L507L508L509L509L510L511L512L513L514L515L516L517L518L519L519L520L521L522L523L524L525L526L527L528L529L529L530L531L532L533L534L535L536L537L538L539L539L540L541L542L543L544L545L546L547L548L549L549L550L551L552L553L554L555L556L557L558L559L559L560L561L562L563L564L565L566L567L568L569L569L570L571L572L573L574L575L576L577L578L578L579L579L580L581L582L583L584L585L586L587L588L589L589L590L591L592L593L594L595L596L597L598L599L599L600L601L602L603L604L605L606L607L608L609L609L610L611L612L613L614L615L616L617L618L619L619L620L621L622L623L624L625L626L627L628L629L629L630L631L632L633L634L635L636L637L638L639L639L640L641L642L643L644L645L646L647L648L649L649L650L651L652L653L654L655L656L657L658L659L659L660L661L662L663L664L665L666L667L668L669L669L670L671L672L673L674L675L676L677L678L678L679L679L680L681L682L683L684L685L686L687L688L689L689L690L691L692L693L694L695L696L697L698L699L699L700L701L702L703L704L705L706L707L708L709L709L710L711L712L713L714L715L716L717L718L719L719L720L721L722L723L724L725L726L727L728L729L729L730L731L732L733L734L735L736L737L738L739L739L740L741L742L743L744L745L746L747L748L749L749L750L751L752L753L754L755L756L757L758L759L759L760L761L762L763L764L765L766L767L768L769L769L770L771L772L773L774L775L776L777L778L778L779L779L780L781L782L783L784L785L786L787L788L789L789L790L791L792L793L794L795L796L797L798L799L799L800L801L802L803L804L805L806L807L808L809L809L810L811L812L813L814L815L816L817L818L819L819L820L821L822L823L824L825L826L827L828L829L829L830L831L832L833L834L835L836L837L838L839L839L840L841L842L843L844L845L846L847L848L849L849L850L851L852L853L854L855L856L857L858L859L859L860L861L862L863L864L865L866L867L868L869L869L870L871L872L873L874L875L876L877L878L878L879L879L880L881L882L883L884L885L886L887L888L889L889L890L891L892L893L894L895L896L897L898L899L899L900L901L902L903L904L905L906L907L908L909L909L910L911L912L913L914L915L916L917L918L919L919L920L921L922L923L924L925L926L927L928L929L929L930L931L932L933L934L935L936L937L938L939L939L940L941L942L943L944L945L946L947L948L949L949L950L951L952L953L954L955L956L957L958L959L959L960L961L962L963L964L965L966L967L968L969L969L970L971L972L973L974L975L976L977L978L978L979L979L980L981L982L983L984L985L986L987L988L989L989L990L991L992L993L994L995L996L997L998L999L999L1000L1001L1002L1003L1004L1005L1006L1007L1008L1009L1009L1010L1011L1012L1013L1014L1015L1016L1017L1018L1019L1019L1020L1021L1022L1023L1024L1025L1026L1027L1028L1029L1029L1030L1031L1032L1033L1034L1035L1036L1037L1038L1039L1039L1040L1041L1042L1043L1044L1045L1046L1047L1048L1049L1049L1050L1051L1052L1053L1054L1055L1056L1057L1058L1059L1059L1060L1061L1062L1063L1064L1065L1066L1067L1068L1069L1069L1070L1071L1072L1073L1074L1075L1076L1077L1078L1078L1079L1079L1080L1081L1082L1083L1084L1085L1086L1087L1088L1089L1089L1090L1091L1092L1093L1094L1095L1096L1097L1098L1099L1099L1100L1101L1102L1103L1104L1105L1106L1107L1108L1109L1109L1110L1111L1112L1113L1114L1115L1116L1117L1118L1119L1119L1120L1121L1122L1123L1124L1125L1126L1127L1128L1129L1129L1130L1131L1132L1133L1134L113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6L2037L2038L2039L2039L2040L2041L2042L2043L2044L2045L2046L2047L2048L2049L2049L2050L2051L2052L2053L2054L2055L2056L2057L2058L2059L2059L2060L2061L2062L2063L2064L2065L2066L2067L2068L2069L2069L2070L2071L2072L2073L2074L2075L2076L2077L2078L2078L2079L2079L2080L2081L2082L2083L2084L2085L2086L2087L2088L2089L2089L2090L2091L2092L2093L2094L2095L2096L2097L2098L2099L2099L2100L2099L2100L2101L2102L2103L2104L2105L2106L2107L2108L2109L2109L2110L2111L2112L2113L2114L2115L2116L2117L2118L2119L2119L2120L2121L2122L2123L2124L2125L2126L2127L2128L2129L2129L2130L2131L2132L2133L2134L2135L2136L2137L2138L2139L2139L2140L2141L2142L2143L2144L2145L2146L2147L2148L2149L2149L2150L2151L2152L2153L2154L2155L2156L2157L2158L2159L2159L2160L2161L2162L2163L2164L2165L2166L2167L2168L2169L2169L2170L2171L2172L2173L2174L
```

■ 5.1.1 Latihan 1



modul5 - NetBeans (DE 8.0.2)

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

Project Files Services

Start Page `Latihan1.java` `LatihanAccess.java`

Search (Ctrl+F)

default config

Project modul5

- Source Packages
 - default package
 - Latihan1.java
 - LatihanAccess.java
 - modul5
 - Libraries

Navigator

Methods

Latihan1

- name : String
- name : String
- res : String

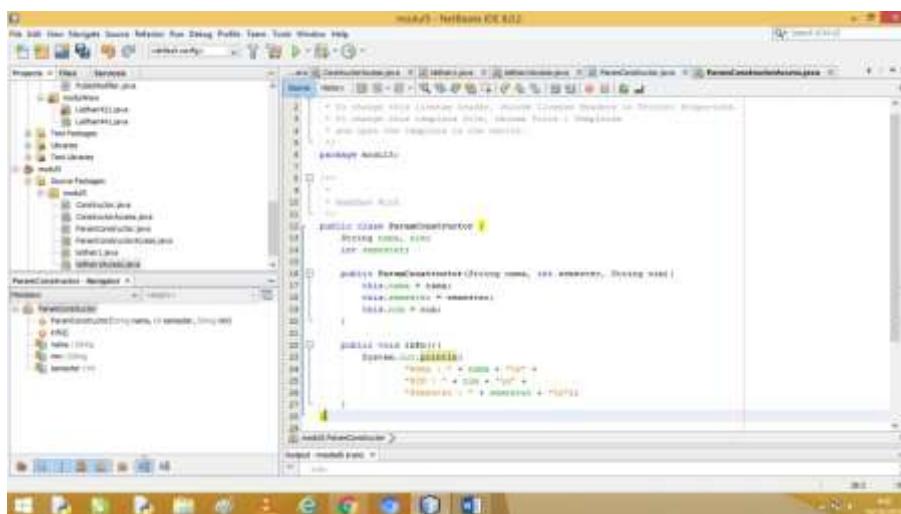
Output modul5 (run)

```
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 modul5;
6  /*
7  */
8  /*
9  * Author: Student
10 */
11 public class Latihan1 {
12
13     String name = "Data Sifat";
14     String name = "L20N190007";
15     String element = "Latihan";
16
17     public Latihan1() {
18         System.out.println(
19             "Name" + name + "\n" +
20             "Name" + name + "\n" +
21             "Element" + element);
22     }
23
24 }
25
26
27 NameData Sifat
28 NAME20N190007
29 ElementLatihan
30
31 STILL SUCCESSFUL (total time: 0 seconds)
```

Activate Windows
Go to Settings to activate Windows.

• 5.2 PARAMETERIZED CONSTRUCTOR

■ Program 3. Parameterized Constructor



modul5 - NetBeans (DE 8.0.2)

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

Project Files Services

Start Page `PersonController.java` `Latihan1.java` `LatihanAccess.java` `PersonController.java` `PersonControllerTest.java` `PersonControllerTestRun.java`

Search (Ctrl+F)

default config

Project modul5

- Source Packages
 - default package
 - PersonController.java
 - PersonControllerTest.java
 - PersonControllerTestRun.java
 - Person.java
 - PersonController
 - PersonControllerTest
 - PersonControllerTestRun
 - modul5
 - Libraries

Navigator

Methods

PersonController (PersonController.java)

- name : String
- address : String
- age : int

PersonControllerTest (PersonControllerTest.java)

- name : String
- address : String
- age : int

PersonControllerTestRun (PersonControllerTestRun.java)

- name : String
- address : String
- age : int

Person (Person.java)

- name : String
- address : String
- age : int

PersonController (PersonController.java)

- name : String
- address : String
- age : int

Output modul5 (run)

```
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 modul5;
6  */
7
8  public class Person {
9
10     String name;
11     String address;
12     int age;
13
14     public Person(String name, String address, int age) {
15         this.name = name;
16         this.address = address;
17         this.age = age;
18     }
19
20     public void printInfo() {
21         System.out.println(
22             "Name" + name + "\n" +
23             "Address" + address + "\n" +
24             "Age" + age);
25     }
26
27 }
28
29
30
31
32
33
34
35
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37
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▪ Program 4. Mengakses Parameterized Constructor

The screenshot shows the NetBeans IDE interface with the title bar "model - NetBeans IDE 8.0.2". The left pane displays a project structure with packages like "PublicHeader", "Utilities", "Mathematic", "Utilities", "model", and "model". Under "model", there are sub-packages "model" and "model", containing classes such as "Constructor.java", "ConstructorByAges.java", "Parameter.java", and "ParameterAccess.java". The right pane shows the code editor with the following Java code:

```
package model;

public class ParameterAccess {
    public static void main(String[] args) {
        ParameterAccess pa = new ParameterAccess("text", 1, 1234567890);
        pa.print();
    }
}

model/ParameterAccess.java  1 main
```

Below the code editor, the Output window shows:

```
Output: model.main =>
[INFO] Compiling 1 source file
Name: Library
Size: 32000000bytes
Timestamp: 0
[INFO] BUILD SUCCESSFUL: total time: 0 seconds
```

■ 5.2.1 Latihan 2

1. Screenshot untuk perintah pada nomor 1

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

- Project Explorer:** Shows the project structure with packages like `model`, `model.model`, and `model.model.Hello`.
- Java Editor:** Displays the source code for the `Hello` class.
- Outline View:** Shows the class hierarchy and methods.
- Properties View:** Displays file properties.
- Search View:** Shows search results for `model`.

```
package model;

public class Hello {
    String name;
    String message;
    int age;
    double salary;
    double height;
}

public Hello(String name, String message, int age, double salary, double height) {
    this.name = name;
    this.message = message;
    this.age = age;
    this.salary = salary;
    this.height = height;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}
```

A screenshot of the NetBeans IDE 6.5.1 interface. The title bar reads "NetBeans - NetBeans (IDE ECLIPSE)". The menu bar includes File, Edit, View, Navigate, Sources, Refactor, Run, Debug, Profiles, Team, Tools, Windows, Help. The left sidebar shows the "Projects" tab with a tree view of a Java project containing modules, test packages, and test classes. The "Navigator" tab below it lists various Java classes and methods. The main workspace shows a Java code editor with the following code:

```
public class Test {
    public static void main(String[] args) {
        System.out.println("Hello World");
    }
}

public class Test2 {
    public static void main(String[] args) {
        System.out.println("Hello World 2");
    }
}
```

The status bar at the bottom shows "Status: modul1.java 1 file(s) modified". The bottom dock contains icons for Java, JBoss Seam, JBoss Seam Web, JBoss Seam EJB, JBoss Seam JSF, JBoss Seam Faces, JBoss Seam Test, JBoss Seam Test Web, and JBoss Seam Test EJB.

2. Screenshot untuk perintah pada nomor 2

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

- Title Bar:** "m001 - NetBeans IDE 8.0.2".
- Menu Bar:** File, Edit, View, Navigate, Source, Refactor, Run, Debug, Projects, User, Data, Window, Help.
- Toolbar:** Standard icons for file operations.
- Project Explorer:** Shows a Java project structure:
 - src
 - bin
 - modules
 - LettuceDB
 - Test Package
 - Users
 - Net UsrList
 - m001
 - src
 - com
 - com.lettucedb
 - dal
 - dalAccess
 - dalAccess.java
 - Controller.java
 - ControllerUsers.java
 - dalController.java
 - dalControllerUserAccess.java
- Navigator:** Shows a database connection named "m001" with the URL "jdbc:mysql://localhost:3306/m001".
- Editor:** Displays Java code for a class named "dalAccess". The code includes imports for java.util.List and com.mysql.jdbc.PreparedStatement, and defines a static method named "readAll" that returns a List of objects of type "User". The "User" class is defined with attributes: id (int), name (String), and age (int). The "readAll" method uses a PreparedStatement to execute a SQL query and return the results as a List of User objects.
- Bottom Status Bar:** Shows the status "Detailed - m001(modified)".
- Task List:** Shows a single item: "File - m001(modified)".
- System Tray:** Shows standard icons for power, network, volume, and system status.

Outputnya:

A screenshot of the NetBeans IDE 6.1 interface. The title bar reads "netbeans6 - NetBeans IDE 6.1 (1)." The menu bar includes File, Edit, View, Navigate, Sources, Refactor, Run, Debug, Profiles, Tools, Tools, Windows, Help. The toolbar has icons for New, Open, Save, Cut, Copy, Paste, Find, Select All, and Undo. The left sidebar shows the Project Explorer with a tree view of Java files like MainFrame.java, LetterOfCredit.java, LetterOfCreditLine.java, Main.java, and several package files under modell. The Libraries node lists JBoss Seam, JBoss Seam Core, JBoss Seam Web, JBoss Seam EJB, and JBoss Seam Test. The Navigator pane shows the file "mainframe.java" with line numbers 1 through 10. The central workspace displays the Java Persistence API (JPA) interface for the "mainframe" entity. It shows fields: Name (String), JndiName (String), TotalDebt (Double), CurrentDebt (Double), and Height (float). Below these are their respective getters and setters. At the bottom of the interface, there are buttons for Create Entity, Update Entity, Delete Entity, and Insert Entity.

- 5.3 TUGAS

1) Screenshot untuk perintah pada nomor 1

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

- Title Bar:** modul5 - NetBeans IDE 8.0.2
- Menu Bar:** File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
- Toolbar:** Standard toolbar with icons for file operations.
- Project Explorer:** Shows the project structure under "modul5".
- Code Editor:** Displays the code for the `Tugas` class. The code includes fields for `fasilitas`, `jurusan`, `name`, and `nim`. It has a constructor, a `tugas` method, and an `info` method.
- Output:** Shows the output of the run command, displaying the printed information.
- Bottom:** Windows taskbar with various application icons.

2) Screenshot untuk perintah pada nomor 2

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

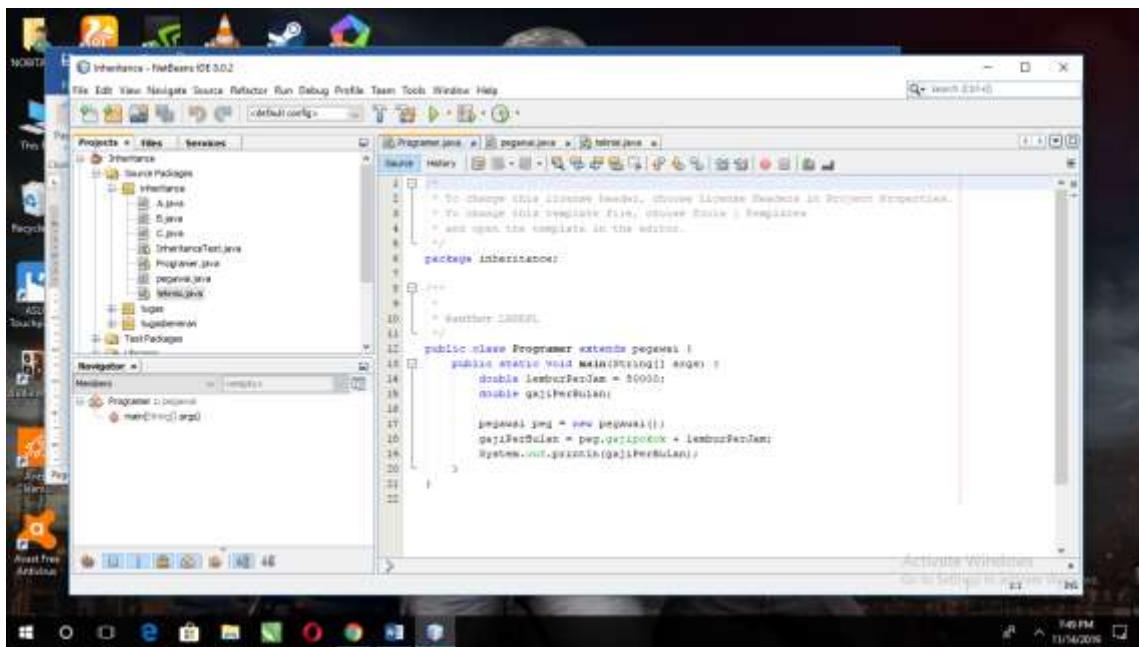
- Title Bar:** modul5 - NetBeans IDE 8.0.2
- Menu Bar:** File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
- Toolbar:** Standard toolbar with icons for file operations.
- Project Explorer:** Shows the project structure under "modul5".
- Code Editor:** Displays the code for the `TugasAccess` class. It includes a constructor and a `main` method that creates `Tugas` objects and prints them.
- Output:** Shows the output of the run command, displaying the printed information.
- Bottom:** Windows taskbar with various application icons.

Nama : Defa Raffy Z.R

NIM : L200180068

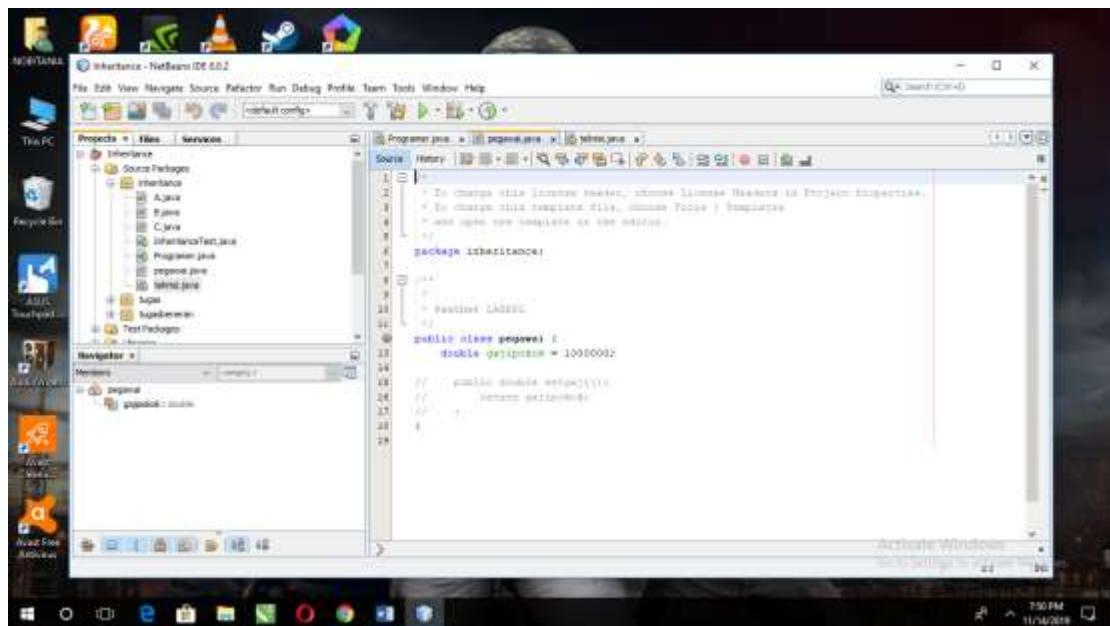
Kelas : B

1.



A screenshot of the NetBeans IDE interface. The title bar says "Inheritance - NetBeans IDE 8.0.2". The left sidebar shows a project named "Inheritance" with source packages "Ajax", "B.java", "C.java", "InheritanceTest.java", "Programmer.java", "pegawai.java", and "Ternutama". Below that is a "Navigator" pane showing a file named "Programmer.java". The main editor pane displays Java code:

```
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 Inheritance;
6  *
7  * ...
8  *
9  * Author: LEMBEK
10 *
11 */
12
13 public class Programmer extends pegawai {
14     public static void main(String[] args) {
15         double lemburPerJam = 50000;
16         double gajiPerJam;
17
18         pegawai pgj = new pegawai();
19         pgj.gajiBulanan = pgj.gajiPokok + lemburPerJam;
20         System.out.println(pgj.gajiBulanan);
21     }
22 }
```



A screenshot of the NetBeans IDE interface, identical to the one above but with a different window title. The title bar says "Inheritance - NetBeans IDE 8.0.2". The left sidebar shows a project named "Inheritance" with source packages "Ajax", "B.java", "C.java", "InheritanceTest.java", "Programmer.java", "pegawai.java", and "Ternutama". Below that is a "Navigator" pane showing a file named "pegawai.java". The main editor pane displays Java code:

```
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 LEMBEKAH;
6  *
7  * ...
8  *
9  * Author: LEMBEK
10 *
11 */
12
13 public class pegawai {
14     double gajiPokok = 1000000;
15
16     // public double setGajiPokok() {
17     //     return gajiPokok;
18     // }
19
20 }
```

The screenshot shows the NetBeans IDE 6.0.2 interface. The title bar reads "Inheritance - NetBeans IDE 6.0.2". 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, Run, Stop, and Exit. The Projects tab shows a single project named "Inheritance". The Source Packages node contains packages "Inheritance", "java", "javax", "java.awt", "java.awt.event", "java.awt.image", "java.awt.print", "java.awt.swing", "java.awt.datatransfer", and "java.util". The Navigator tab shows a class "A" with a method "messsageA()". The Editor tab displays the following Java code:

```
package inheritance;

public class A {
    public void messsageA() {
        System.out.println("Info messsage A");
    }
}
```

The Output tab shows the build log:

```
1040003-B
BUILD SUCCESSFUL (total time: 1 second)
```

2.

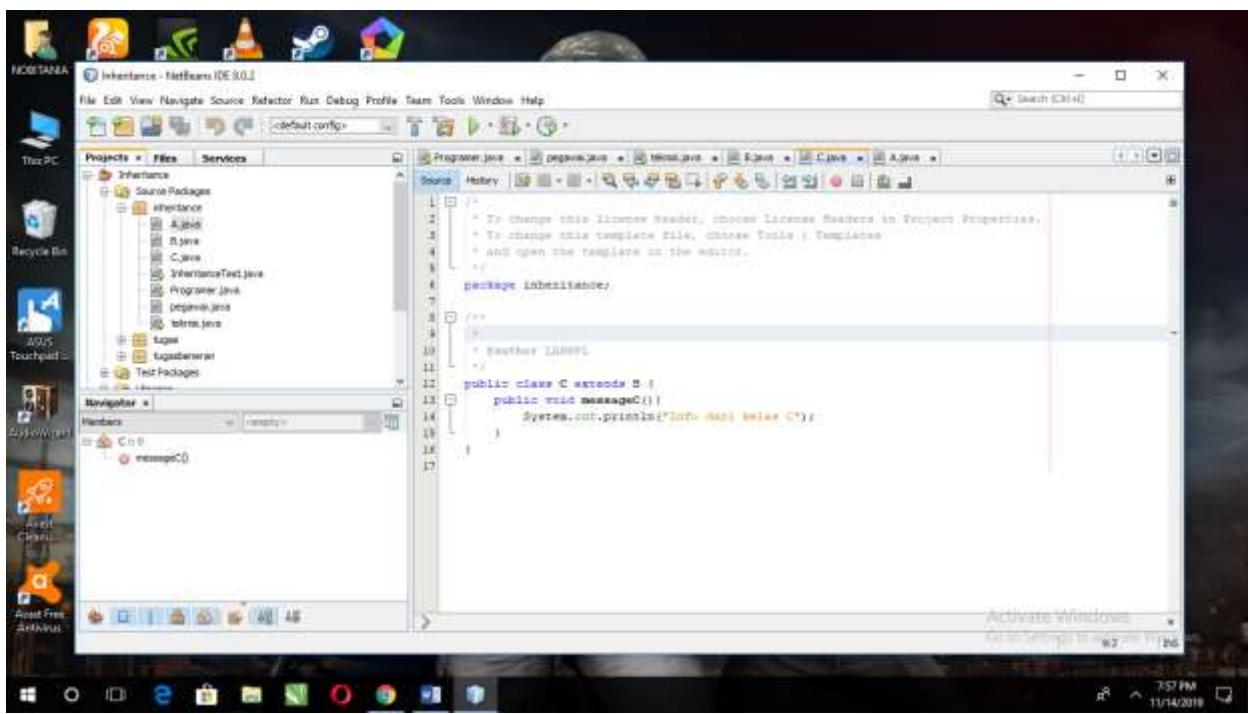
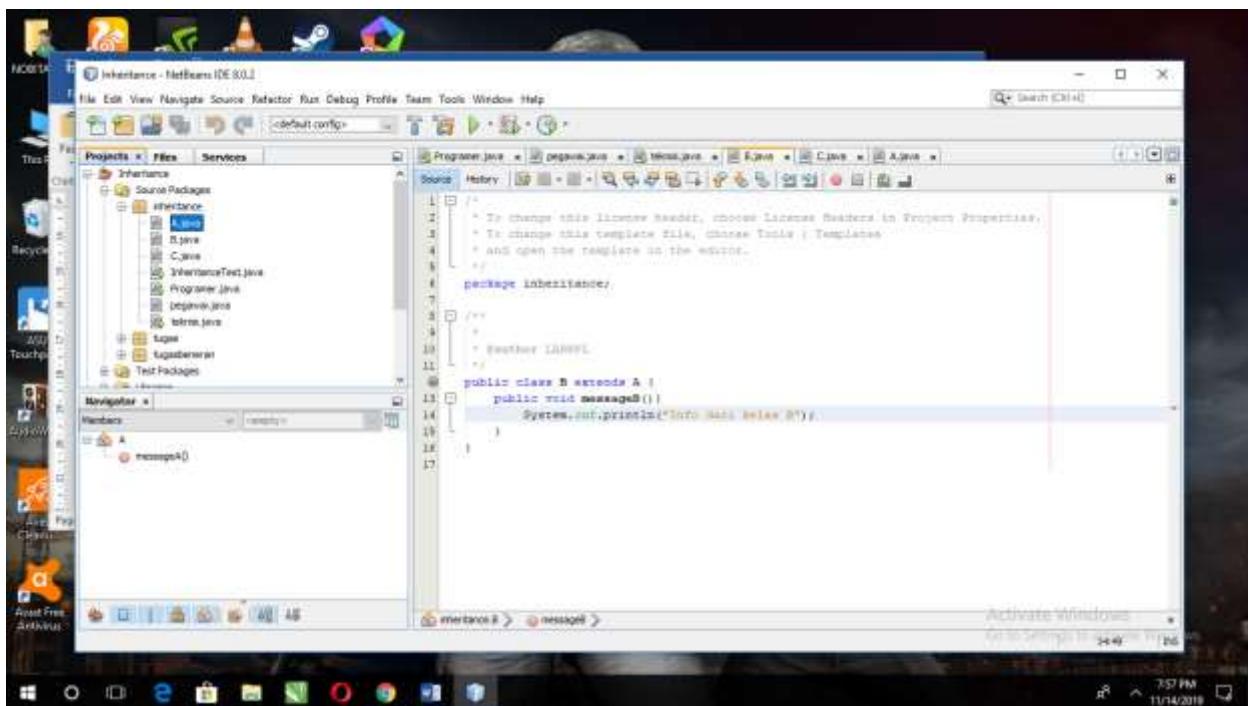
The screenshot shows the NetBeans IDE 8.0.1 interface. The title bar reads "Inheritance - NetBeans IDE 8.0.1". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help. The toolbar has icons for New Project, Open Project, Save, Run, Stop, and Exit. The Projects tab shows a single project named "Inheritance". The Source Packages node contains packages "Inheritance", "java", "javax", "java.awt", "java.awt.event", "java.awt.image", "java.awt.print", "java.awt.swing", "java.awt.datatransfer", and "java.util". The Navigator tab shows a class "A" with a method "messsageA()". The Editor tab displays the same Java code as the previous screenshot:

```
package inheritance;

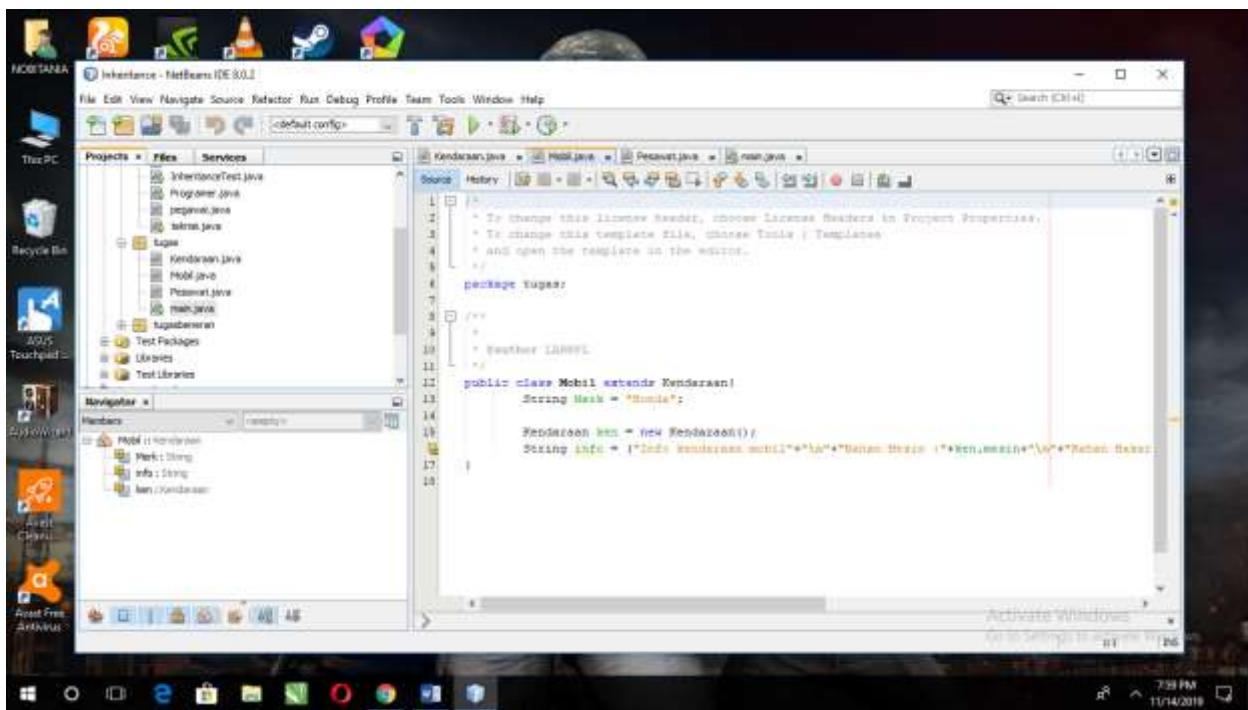
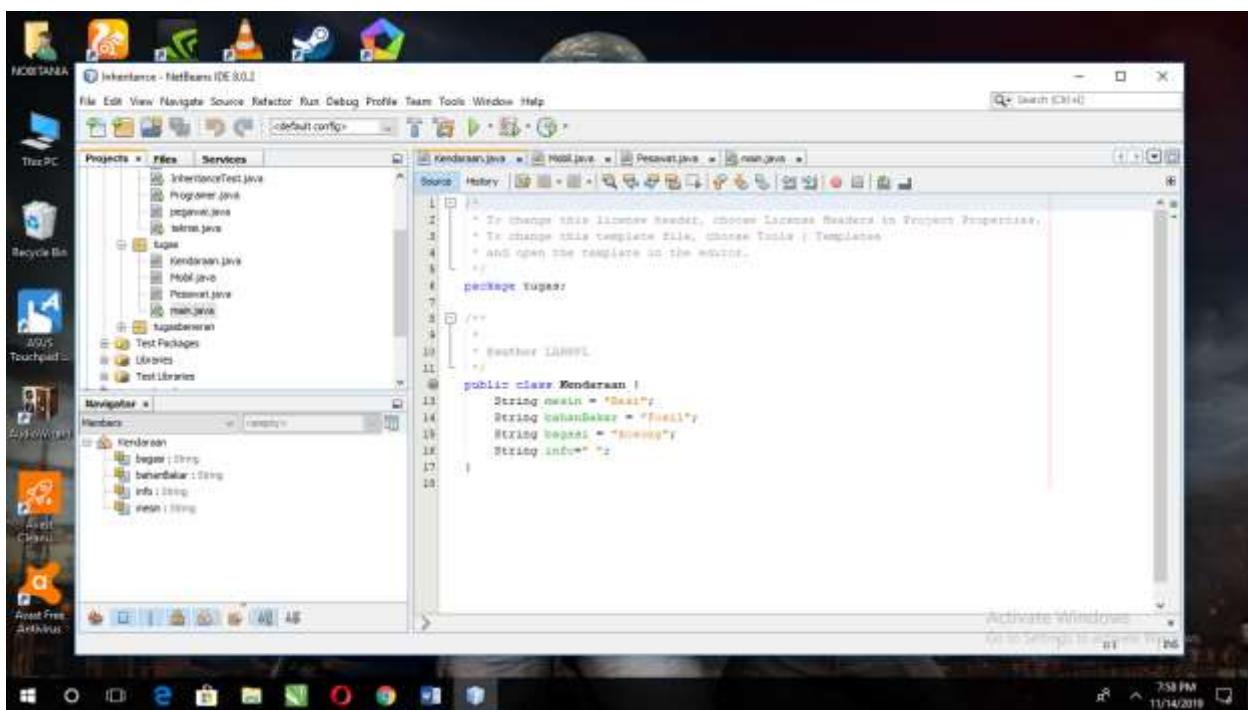
public class A {
    public void messsageA() {
        System.out.println("Info messsage A");
    }
}
```

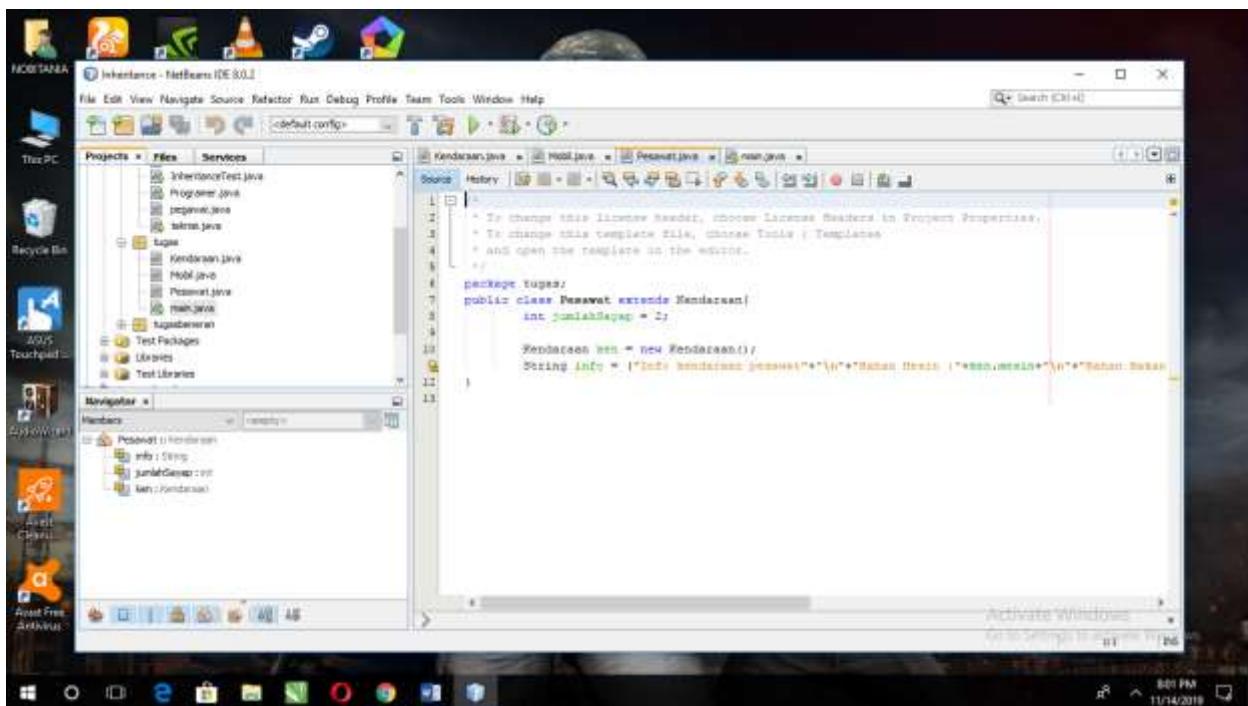
The Output tab shows the build log:

```
1040003-B
BUILD SUCCESSFUL (total time: 1 second)
```



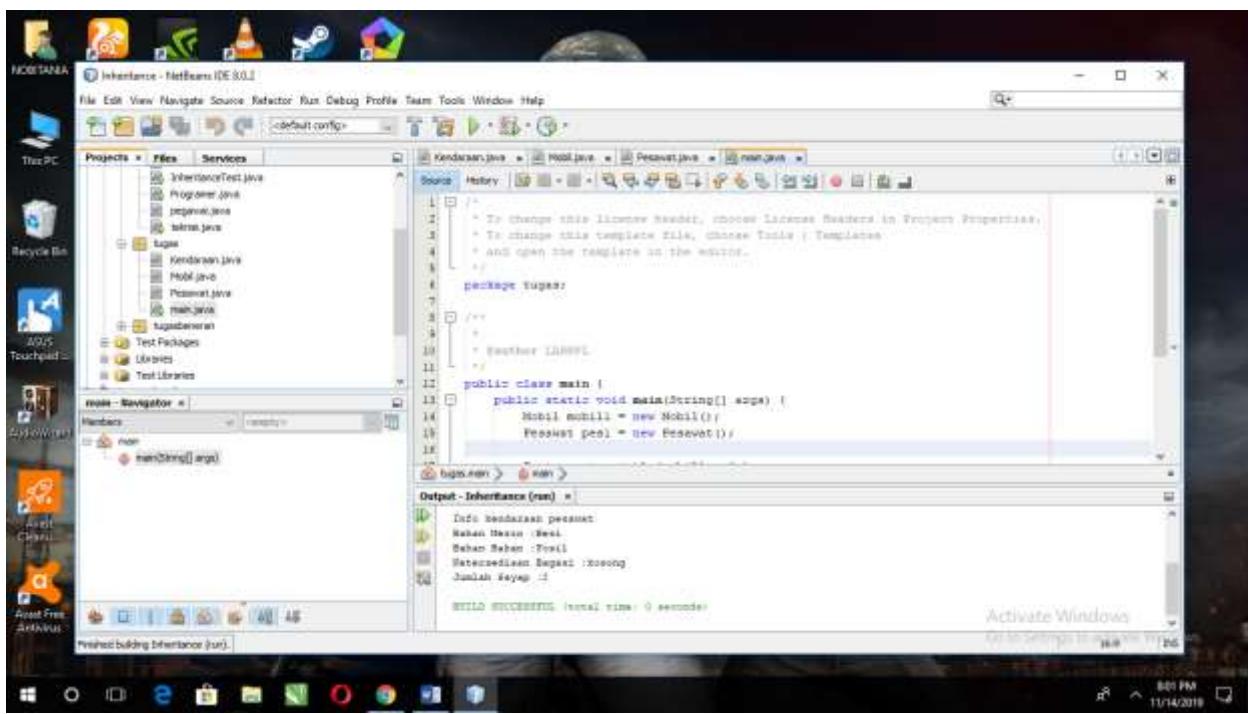
3.





```
package tugas;
public class Pesawat extends Kendaraan{
    int jumlahKayap = 2;
}

Kendaraan ktm = new Kendaraan();
String info = ("Info kendaraan pesawat" + "\n" + "Nama : Pesawat" + "\n" + "Jumlah Kaya
```



```
package tugas;
public class main {
    public static void main(String[] args) {
        Mobil mobil = new Mobil();
        Pesawat pesawat = new Pesawat();
    }
}
```

Output - Inheritance (run) :

```
Info kendaraan pesawat
Nama : Pesawat
Jumlah Kaya : 2
BUILD SUCCESSFUL (total time: 0 seconds)
```

4.

The screenshot shows the NetBeans IDE interface with the title "Inheritance - NetBeans IDE 8.0.1". The code editor displays the following Java code:

```
package tuyasberceran;
public class BangunDatar {
    protected double luas;
    protected double keliling;

    public void hitungLingkaran() {
        Persegi per = new Persegi();
        luas = per.sisi*per.sisi;
        PersegiPanjang peri = new PersegiPanjang();
        peri.sisi = per.sisi;
        System.out.println(luas);
    }

    public void hitungLuas() {
        Persegi per = new Persegi();
        double luas1 = per.sisi*per.sisi;
        PersegiPanjang peri = new PersegiPanjang();
        double luas2 = peri.sisi*peri.sisi;
        System.out.println(luas1);
    }
}
```

The code defines a class `BangunDatar` with protected fields `luas` and `keliling`. It contains two methods: `hitungLingkaran()` and `hitungLuas()`. Both methods create instances of `Persegi` and calculate the area (`sisi*sisi`). The first method also creates an instance of `PersegiPanjang` and prints its area.

The screenshot shows the NetBeans IDE interface with the title "Inheritance - NetBeans IDE 8.0.1". The code editor displays the following Java code:

```
package tuyasberceran;
public class BangunDatar {
    protected double luas = (seg1.alas*seg1.tinggi)/2;
    System.out.println(luas);

    public void hitungLuas() {
        Persegi per = new Persegi();
        double luas1 = per.sisi*per.sisi;
        PersegiPanjang peri = new PersegiPanjang();
        double luas2 = peri.sisi*peri.sisi;
        System.out.println("luas persegi "+luas1+
                           "\nluas persegi panjang "+luas2+
                           "\nluas segitiga siku-siku "+luas3+
                           "\nluas segitiga samaseksial "+luas4+"");
    }
}
```

The code is identical to the previous one, but it includes a calculation for the area of a triangle (`seg1.alas*seg1.tinggi/2`) and prints all three areas (rectangle, square, and triangle) at once.

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

- Title Bar:** Inheritance - NetBeans IDE 8.0.1
- Toolbar:** File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
- Project Explorer:** Projects (PERSEGIPANJANG), Files, Services. The PERSEGIPANJANG project contains:
 - src directory with:
 - BangunDatar.java
 - Persegipanjang.java
 - PersegiPantjang.java
 - rectangle.java
 - segitigaBentuk.java
 - segitigaGenCetakan.java
 - segitiga.java
 - Test Packages
 - Utilities
 - Test Libraries
 - Super_Hierarchy
- Navigator:** Inheritance - Navigator
- Code Editor:** BangunDatar.java (selected). The code defines classes for shapes and calculates their area and perimeter.
- Bottom Status Bar:** 10480/4818, 806 PM, 11/14/2019

A screenshot of the NetBeans IDE 8.0.1 interface. The title bar says "Inheritance - NetBeans IDE 8.0.1". 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, Run, Stop, and others. The Projects tab shows a package named "persegi" containing files like Persegi.java, BanguData.java, and BanguPersegi.java. The Services tab shows a package named "persegi_besar" containing files like PersegiBesar.java, BanguDataBesar.java, and BanguPersegiBesar.java. The Navigator tab shows a package named "persegi" containing a file named "persegi.java". The Editor tab displays the following Java code:

```
package persegi_besar;
public class Persegi extends BanguData{
    double sisi = 5;
```

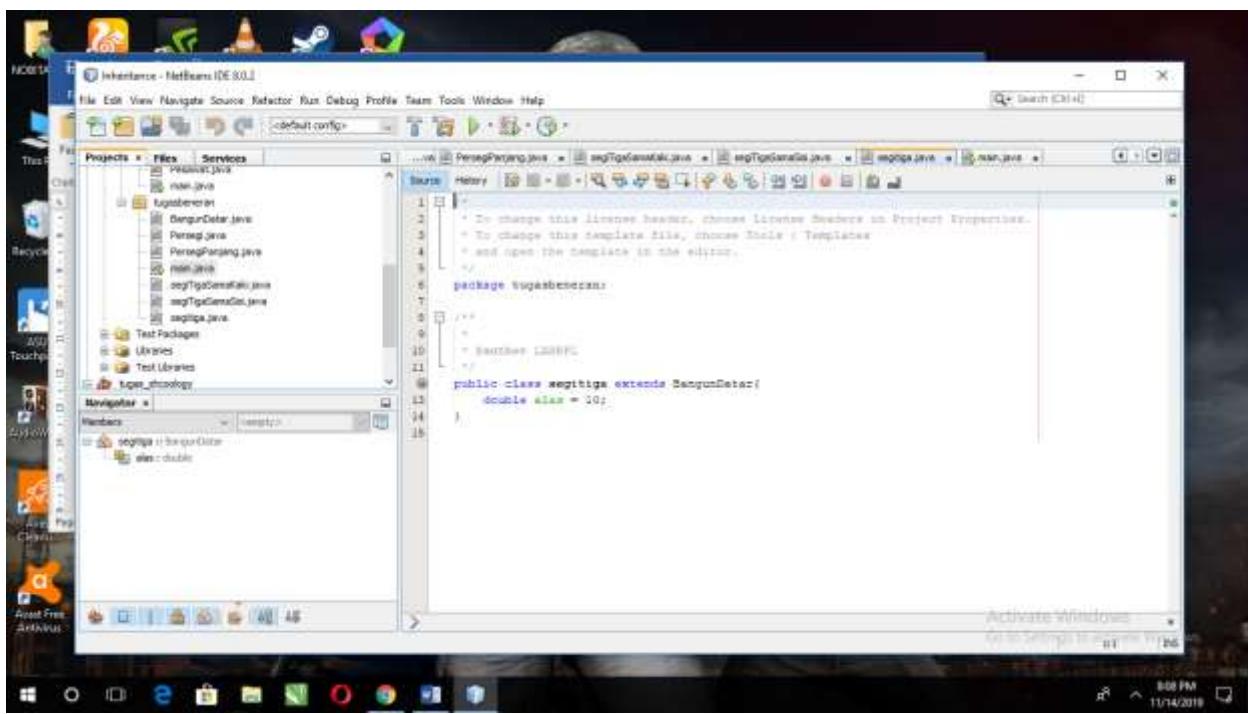
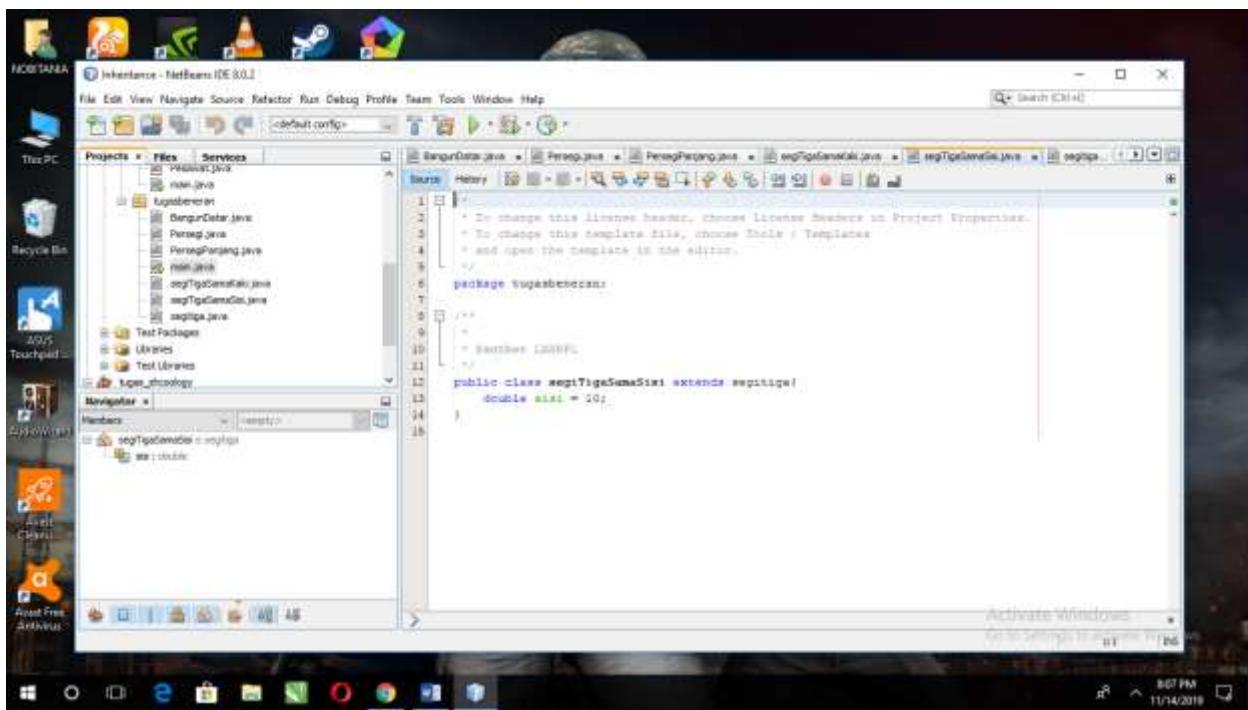
The status bar at the bottom right shows "Activate Windows" and the date "11/14/2019".

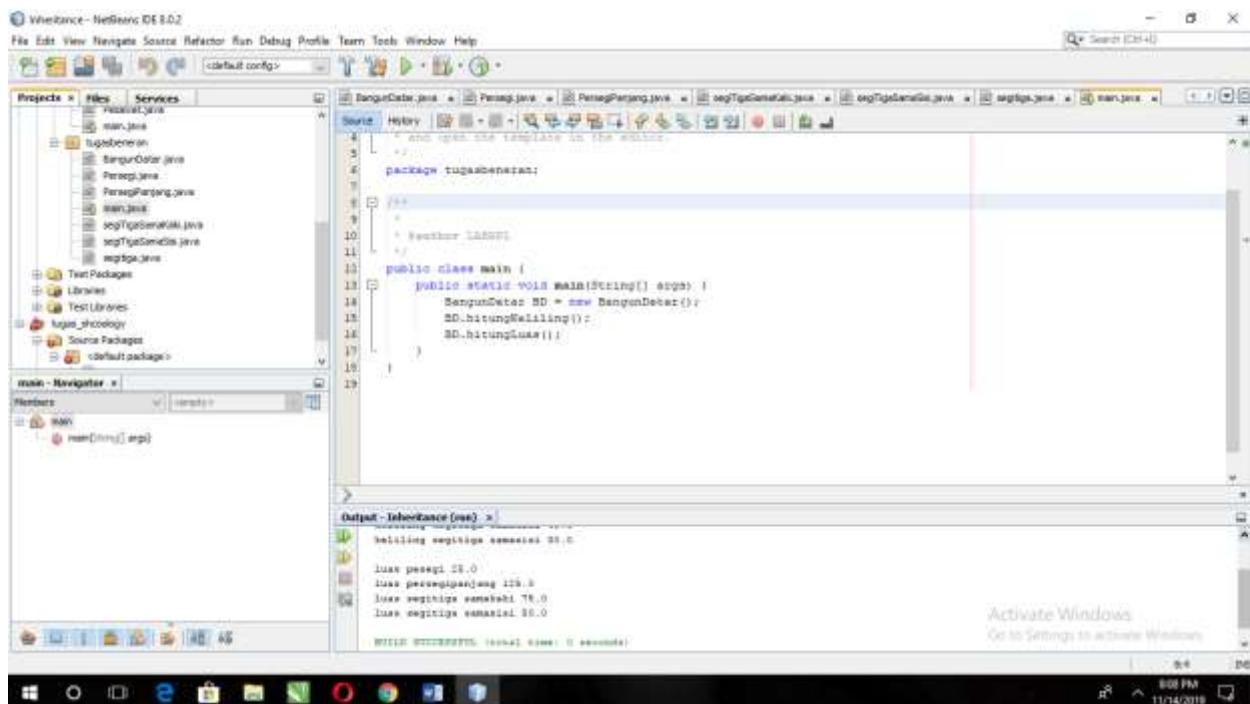
The screenshot shows the NetBeans IDE interface with the title "Inheritance - NetBeans IDE 8.0.2". The left sidebar displays a project structure with files like `Persegi.java`, `BangunDatar.java`, and `Segitiga.java`. The central editor pane shows the code for `PersegiPanjang.java`:

```
1  * To change this license header, choose License Headers in Project Properties.
2  * To change this template file, choose Tools > Templates
3  * and open the template in the editor.
4
5  package tugasbesecara;
6
7  /**
8  *
9  * Author : GABRIEL
10 */
11
12 public class PersegiPanjang extends BangunDatar {
13     int panjang = 25;
14     double lebar = 5;
15 }
```

The screenshot shows the NetBeans IDE interface with the title "Inheritance - NetBeans IDE 8.0.2". The left sidebar displays a project structure with files like `Persegi.java`, `BangunDatar.java`, and `Segitiga.java`. The central editor pane shows the code for `SegitigaSamaKaki.java`:

```
1  * To change this license header, choose License Headers in Project Properties.
2  * To change this template file, choose Tools > Templates
3  * and open the template in the editor.
4
5  package tugasbesecara;
6
7  /**
8  *
9  * Author : GABRIEL
10 */
11
12 public class segitigaSamaKaki extends segitiga {
13     double alasTitik = 15;
14 }
```



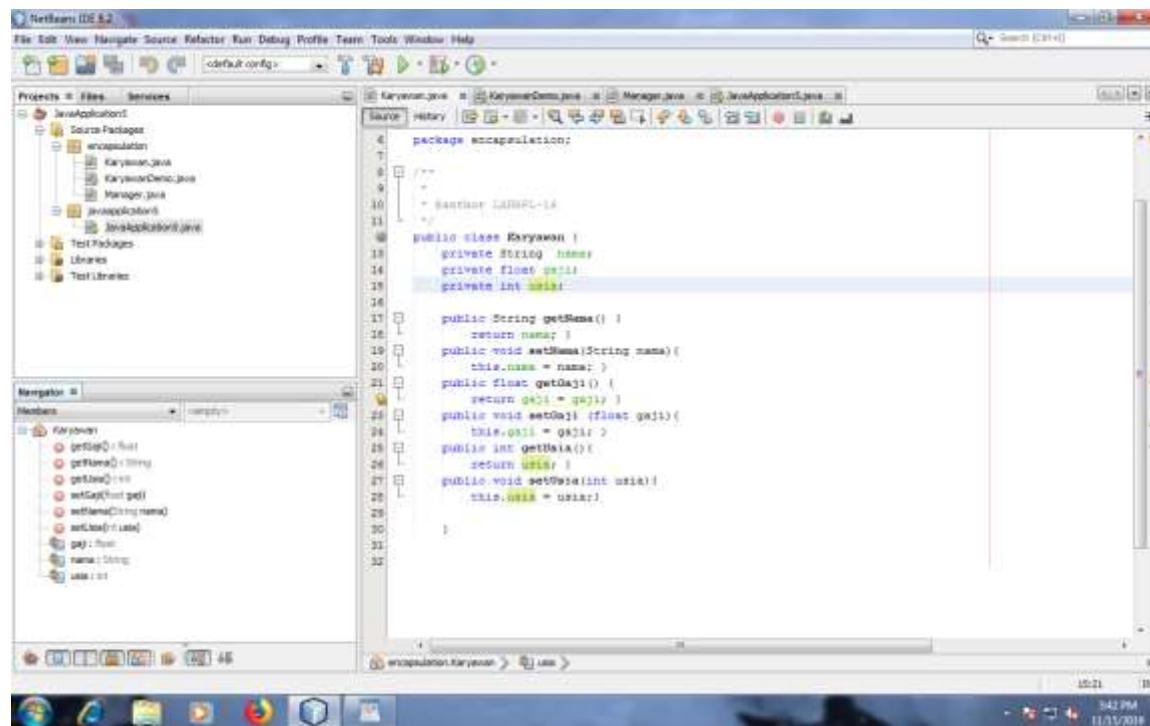


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TUGAS MODUL 7



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

- Project Explorer:** Shows a project named "JavaApplication1" containing packages "encapsulation" and "javapplication". The "encapsulation" package contains classes "Karyawan.java", "KaryawanDescr.java", and "Manager.java". The "javapplication" package contains a class "JavaApplication1Frame.java".
- Code Editor:** Displays the content of the "Karyawan.java" file. The code defines a class Karyawan with private attributes name, gaji, and usia, and public methods getName(), setName(String), getGaji(), and setGaji(float). It also includes a constructor and a toString() method.
- Navigator:** Shows a list of methods for the Karyawan class, including getName(), setName(), getGaji(), setGaji(), getUsia(), and setUsia().
- Bottom Status Bar:** Shows the current time as 15:21 and date as 11/11/2016.

```
4 package encapsulation;
5
6 /**
7 * +-
8 * + Author : LAMPU-14
9 */
10
11 public class Karyawan {
12     private String name;
13     private float gaji;
14     private int usia;
15
16     public String getName() {
17         return name;
18     }
19     public void setName(String name) {
20         this.name = name;
21     }
22     public float getGaji() {
23         return gaji;
24     }
25     public void setGaji (float gaji) {
26         this.gaji = gaji;
27     }
28     public int getUsia(){
29         return usia;
30     }
31     public void setUsia(int usia) {
32         this.usia = usia;
33     }
34 }
```

JavaApplication5 - NetBeans IDE 8.2

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

default config

Projects Files Services

JavaApplication5

- Source Packages
 - encapsulation
 - Karyawan.java
 - KaryawanDemo.java
 - Manager.java
 - javaprojekt
 - JavaApplication5.java
- Test Packages
- Libraries
- Test Utilities

Navigator

Methods

Karyawan

- getNama() : String
- getGaji() : float
- getJumlahPokok() : int
- setKantor(String alamat)
- setGajiPokok(int gajiPokok)
- alamat : String
- gajiPokok : int
- jumlahPokok : float

Manager

- getNama() : String
- getGajiManager() : float
- getJumlahPokok() : int
- setKantor(String alamat)
- setGajiPokok(int gajiPokok)
- alamat : String
- gaji : float
- gajiManager : float

JavaApplication5.java

```
4  * add open the template in the editor.
5  */
6  package encapsulation;
7
8  /**
9   * Author: TAUFIQUL HAQUE
10  */
11
12 public class Manager extends Karyawan{
13     private final float jandekreja = 7.5f;
14     private String alamat;
15     private int jumlahPokok;
16
17     public int getGajiManager(){
18         return (int)gaji*2;
19     }
20
21     public void setGajiPokok(int gajiPokok){
22         this.gajiPokok = gajiPokok;
23     }
24
25     public String getAlamat(){
26         return alamat;
27     }
28     public void setAlamat(String alamat){
29         this.alamat = alamat;
30     }
31     public int jumlahPokok(){
32         return (int) jumlahPokok;
33     }
34
35     public float getGajiManager(){
36         return getGaji()*2;
37     }
38 }
```

enapsulation.Manager > setGajiPokok >

23:34 146

343 PM 11/1/2018

JavaApplication5 - NetBeans IDE 8.2

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

default config

Projects Files Services

JavaApplication5

- Source Packages
 - encapsulation
 - Karyawan.java
 - KaryawanDemo.java
 - Manager.java
 - javaprojekt
 - JavaApplication5.java
- Test Packages
- Libraries
- Test Utilities

Navigator

Methods

KaryawanDemo

- main(String[] args) : void

Manager

- getNama() : String
- getGaji() : float
- getJumlahPokok() : int
- setKantor(String alamat)
- setGajiPokok(int gajiPokok)
- alamat : String
- gaji : float
- gajiManager : float

JavaApplication5.java

```
4  *
5  * Author: TAUFIQUL HAQUE
6  */
7  public class KaryawanDemo {
8      public static void main(String[] args){
9          Manager m1 = new Manager();
10         Manager m2 = new Manager();
11         Karyawan k1 = new Karyawan();
12         Karyawan k2 = new Karyawan();
13         Karyawan k3 = new Karyawan();
14         k1.setNama("Andi");
15         k2.setGaji(1000000);
16         k3.setGaji(20);
17         m1.setAlamat("Kantor");
18         m2.setGajiPokok(2500000);
19
20         System.out.println(k1.getNama());
21         System.out.println(k1.getGaji());
22         System.out.println(k1.getJumlahPokok());
23         System.out.println(m1.getAlamat());
24         System.out.println(m2.getGajiPokok());
25     }
26
27 }
```

enapsulation.KaryawanDemo > main >

23:34 146

343 PM 11/1/2018

JavaApplication5 - NetBeans IDE 8.2

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

default config >

Projects > Files > Services

JavaApplication5

- Source Packages
 - encapsulation
 - Karyawan.java
 - KaryawanDemo.java
 - Manager.java
 - ManagerTest.java
 - JavaApplication5
 - JavaApplication5Test
 - Test Packages
 - Libraries
 - Test Utilities

main - Navigator >

Methods

- KaryawanDemo
- main([String[]])

Output - JavaApplication5 (main) >

```
13 public static void main(String[] args){  
14     Manager m1 = new Manager();  
15     Manager m2 = new Manager();  
16     Karyawan k1 = new Karyawan();  
17     Karyawan k2 = new Karyawan();  
18     Karyawan k3 = new Karyawan();  
19     Karyawan k4 = new Karyawan();  
20     Karyawan k5 = new Karyawan();  
21     k1.setNama("aaa");  
22     k1.setGaji(3000000);  
23     k1.setDenda(20);  
24     k1.setAlamat("jl. Jalan");  
25     m2.setObjekPekerja(2500000);  
26     m2.setNama("cctv");  
27     k2.setNama("sifir");  
28     k2.setGaji(3000000);  
29     k2.setDenda(12);  
30     m1.setAlamat("jl. Jalan");  
31     m2.setObjekPekerja(2500000);  
32     k5.setNama("satus");  
33     k3.setGaji(3000000);  
34     k3.setDenda(20);  
35 }  
encapsulation.KaryawanDemo > main >
```

9430 166

MODUL 8 POLYMORPHISM

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NIM : L200180068

Kelas : B

LATIHAN

The screenshot shows the NetBeans IDE interface with the title bar "Modul8 - NetBeans IDE 8.0.2". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, and Help. The toolbar has various icons for file operations like Open, Save, and Run. The Navigator panel on the left shows the project structure with files like StartPage, Kucing.java, Anjing.java, and TestPolymorphism.java. The main editor pane displays the following Java code:

```
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 Polymorphism;
7
8 /**
9 *
10 * Author LABRPL-3
11 */
12 class Kucing extends Hewani{
13     public void jalan(){
14         System.out.println("Kucing bisa berjalan dengan " + "dan berlari");
15     }
16 }
17
```

The screenshot shows the NetBeans IDE interface with the title bar "Modul8 - NetBeans IDE 8.0.2". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, and Help. The toolbar has various icons for file operations like Open, Save, and Run. The Navigator panel on the left shows the project structure with files like StartPage, Kucing.java, Anjing.java, and TestPolymorphism.java. The main editor pane displays the following Java code:

```
4 /**
5 * And open the template in the editor.
6 */
7 package Polymorphism;
8
9 /**
10 *
11 */
12 public class Anjing extends Pet{
13     public String perilaku(){
14         return "Menyukai Daging dan Tulang";
15     }
16     void suara(){
17         System.out.println("Guk..Guk..Guk..");
18     }
19 }
20
```

Modull9 - NetBeans IDE 8.0.2

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

Search (Ctrl + F)

Start Page Kucing.java Anjing.java TestPolymorphism.java

Source History

Projects Services

Output Modull9 (run)

```
1 * Author LABRPL-9
2
3 public class TestPolymorphism {
4     public static void main(String[] args) {
5         Kucing_kcl = new Kucing_1();
6         Anjing ejm = new Anjing();
7
8         kcl.beriNama("KCL");
9         System.out.println(kcl.panggilNama());
10        System.out.println(kcl.perilaku());
11        kcl.makan();
12
13        ejm.beriNama("EJM");
14        System.out.println(ejm.panggilNama());
15        System.out.println(ejm.perilaku());
16        ejm.makan();
17    }
18}
```

Activate Windows
Go to Settings to activate Windows

Output: Finished building Modull9 [run].

TUGAS

Modull8 - NetBeans IDE 8.0.2

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

Search (Ctrl + F)

Bang.java CustomerData.java DemoCustomerData.java

Navigator

Members

Elang

jalan()

Source History

Projects Services

Output

```
4 * and open the template in the editor.
5 */
6 package TUGAS;
7
8 /**
9 *
10 * @author LABRPL-9
11 */
12 public class Elang {
13     void jalan(){
14         System.out.println("Hewan yang bisa Terbang");
15     }
16 }
```

Modull8 - NetBeans IDE 8.0.2

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

<default config>

Navigator x Members x

CustomerData

- CustomerData()
- CustomerData(String nama)
- alamat : String
- gaji : double
- nama : String
- pekerjaan : String
- tanggalLahir : String

Source History

```
10  * @author LAMREFI-E
11  */
12  public class CustomerData {
13      String nama, alamat, tanggalLahir, pekerjaan;
14      double gaji;
15
16      public CustomerData() {
17          System.out.println("Data Customer");
18      }
19      public CustomerData(String nama, double gaji) {
20          this.nama = nama;
21          this.gaji = gaji;
22          System.out.println("Name anda " + nama + "\n" +
23                            "Gaji = Rp. " + gaji + "\n");
24      }
25  }
```

Output

modull - NetBeans IDE 8.0.2

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

<default config>

Projects x

- login1
- modull
- modull

Source Packages

- default package
- NewFrame.java

Libraries

- DKJ 1.8 (Default)

CustomerData.java

CustomerDataDemo.java

CustomerDatabase.java

```
1 /**
2  * Author: Lamrefi
3  */
4
5  public class CustomerDatabase {
6      public static void main(String[] args) {
7          CustomerData c1 = new CustomerData("Dedi", "Klaten");
8          CustomerData c2 = new CustomerData("Eliez", 15);
9          CustomerData c3 = new CustomerData("Randy", "Unpas", 2000000);
10         CustomerData c4 = new CustomerData("Rendy", "Solo");
11         CustomerData c5 = new CustomerData("Rizki Tammi", 12);
12         CustomerData c6 = new CustomerData("Wulan", "Semarang", 1000000);
13         CustomerData c7 = new CustomerData("Wulan", "Semarang");
14         CustomerData c8 = new CustomerData("Adiwin", 13);
15         CustomerData c9 = new CustomerData("Boe", "Mair", 1000000);
16         CustomerData c10 = new CustomerData("Bummi", "Pekalongan", 1000000);
17     }
18 }
```

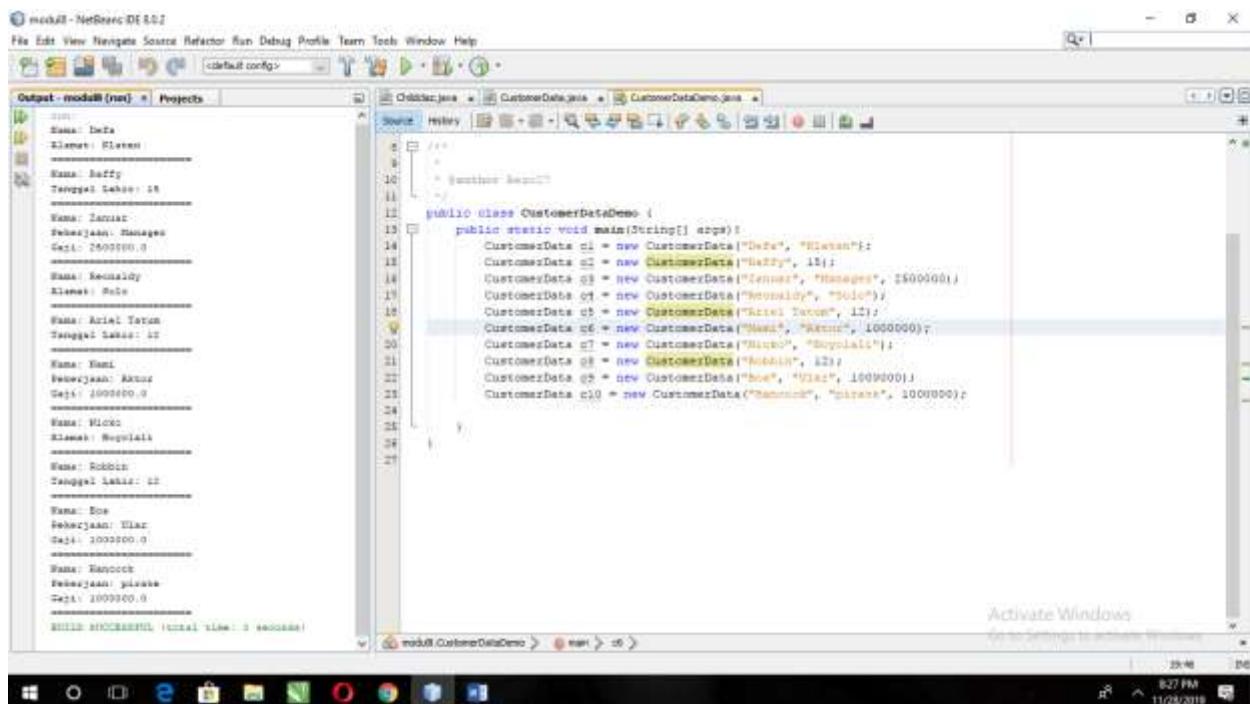
Output - modull (run) :

No	Nama	Alamat	Tanggal Lahir	Pekerjaan
1	Dedi	Klaten		
2	Eliez			
3	Randy	Unpas	15	
4	Rendy	Solo		
5	Rizki Tammi		12	
6	Wulan	Semarang		1000000
7	Wulan	Semarang		
8	Adiwin			13
9	Boe	Mair		1000000
10	Bummi	Pekalongan		1000000

Windows Taskbar:

- WaktuNetApp.exe
- KELUARGA BESAR SABALA
- +12.000-4222-3229
- Update Adobe Flash Player

28.70 8:25 PM 11/28/2019



modul8 - NetBeans IDE 8.0.2

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

<default config>

Project Files Services

Start Page Bank.java BankPasar.java BankPribadi.java BankSyarah.java BankUmum.java

Source History

```
1 /* To change this license header, choose License Headers in Project Properties.
2 * To change this template file, choose Tools | Templates
3 * and open the template in the editor.
4 */
5 package inibank;
6
7 /**
8 */
9
10 public class Bank {
11     protected int rasioBunga() {
12         return 5;
13     }
14 }
15
16
17
```

Output

modul8 - NetBeans IDE 8.0.2

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

<default config>

Project Files Services

Start Page Bank.java BankPasar.java BankPribadi.java BankSyarah.java BankUmum.java

Source History

```
1 /* To change this license header, choose License Headers in Project Properties.
2 * To change this template file, choose Tools | Templates
3 * and open the template in the editor.
4 */
5 package inibank;
6
7 /**
8 */
9
10 public class BankPasar extends BankUmum {
11     @Override
12     protected int rasioBunga() {
13         return 3;
14     }
15 }
16
17
```

Output

modul8 - NetBeans IDE 8.0.2

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

<default config>

Search (Ctrl+F)

Project Files Services

Start Page Bank.java BankPasar.java BankPribadi.java BankSyariah.java BankUmum.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 inibank;
7
8 /**
9 *
10 */
11
12 public class BankPribadi extends Bank {
13 @Override
14 protected int rasioBunga() {
15 return 7;
16 }
17 }

Output

modul8 - NetBeans IDE 8.0.2

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

<default config>

Search (Ctrl+F)

Project Files Services

Start Page Bank.java BankPasar.java BankPribadi.java BankSyariah.java BankUmum.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 inibank;
7
8 /**
9 *
10 */
11
12 public class BankSyariah extends BankUmum {
13 @Override
14 protected int rasioBunga() {
15 return 0;
16 }
17 }

Output

modul8 - NetBeans IDE 8.0.2

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

<default config>

Search (Ctrl+F)

Project Files Services

BankUmum.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
7  package inibank;
8
9  /**
10  */
11
12  @Override
13  protected int rasioBunga() {
14      return 9;
15  }
16
17 }
```

Output

10:4 INS

modul8 - NetBeans IDE 8.0.2

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

<default config>

Search (Ctrl+F)

Project Files Services

Bank.java

Source History

```

10
11
12 public class DemoBank {
13     public static void main(String[] args) {
14         Bank bp = new BankPribadi();
15         Bank bo = new BankUmum();
16         Bank bpz = new BankPasar();
17         Bank bz = new BankSyariah();
18
19         System.out.println(
20             "Bank Pribadi: "+bp.rasioBunga()+"\n"+
21             "Bank Umum: "+bo.rasioBunga()+"\n"+
22             "Bank Pasar: "+bpz.rasioBunga()+"\n"+
23             "Bank Syariah: "+bz.rasioBunga());
24
25         BankUmum bkyar = new BankPasar();
26         BankUmum bkyrs = new BankSyariah();
27
28         System.out.println(
29             "Bank Pasar: "+bkyar.rasioBunga()+"\n"+
30             "Bank Syariah: "+bkyrs.rasioBunga());
31     }
32 }
```

Output - modul8 (run)

```

Bank Pribadi: 7
Bank Umum: 9
Bank Pasar: 3
Bank Syariah: 0

Bank Pasar: 3
Bank Syariah: 0
BUILD SUCCESSFUL (total time: 0 seconds)

```

Activate Windows
Go to Settings to activate Windows

21:52 185

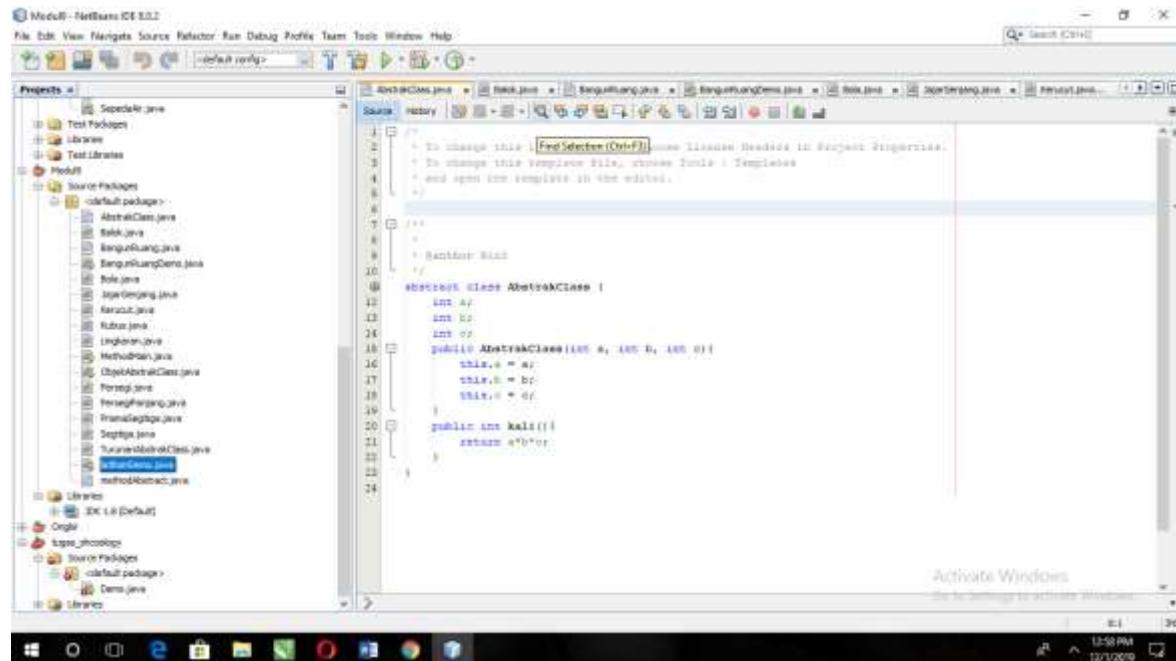
Nama : Defa Raffy Zanuar R

NIM : L200180068

Kelas : B

TUGAS MODUL 9

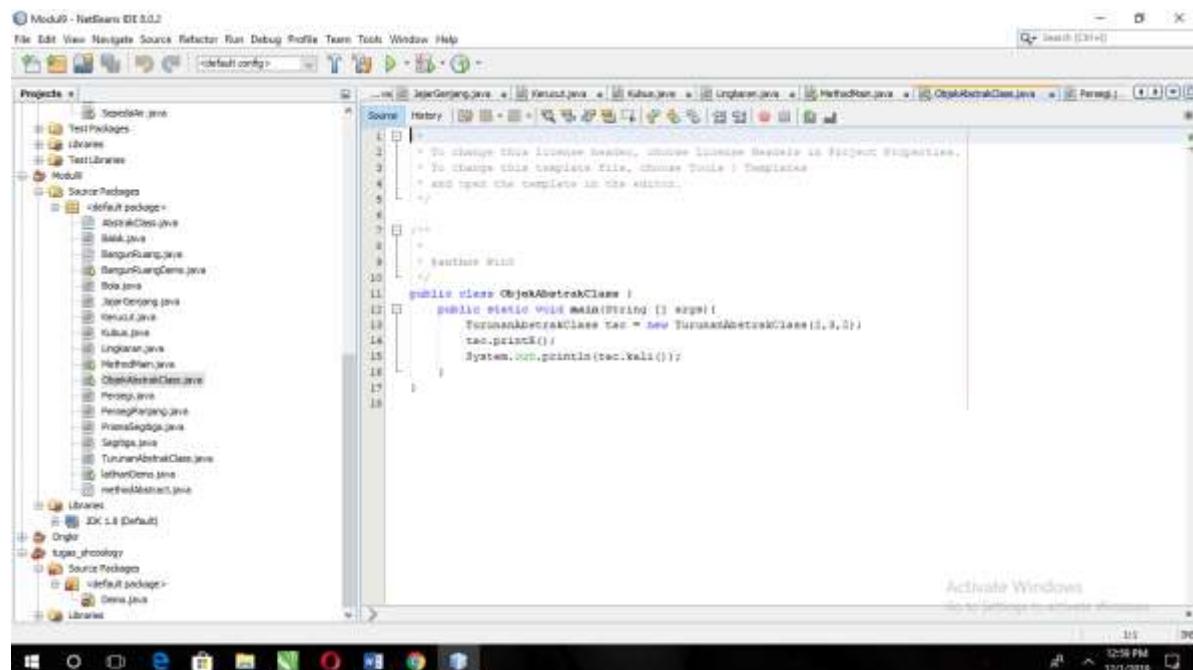
1) Class Abstraks



The screenshot shows the NetBeans IDE interface with the title "Modul9 - NetBeans IDE 8.0.2". The left pane displays the project structure under "Projects", showing packages like "Sedekah.java", "Test Packages", "Libraries", and "Modul9". The right pane shows the code editor with the file "AbstractClass.java" open. The code defines an abstract class "AbstractClass" with three integer fields (a, b, c) and a method "kali()". A tooltip is visible above the code area.

```
1 package Sedekah;
2
3 public abstract class AbstractClass {
4     int a;
5     int b;
6     int c;
7
8     public AbstractClass(int a, int b, int c) {
9         this.a = a;
10        this.b = b;
11        this.c = c;
12    }
13
14    public int kali() {
15        return a*b*c;
16    }
17 }
```

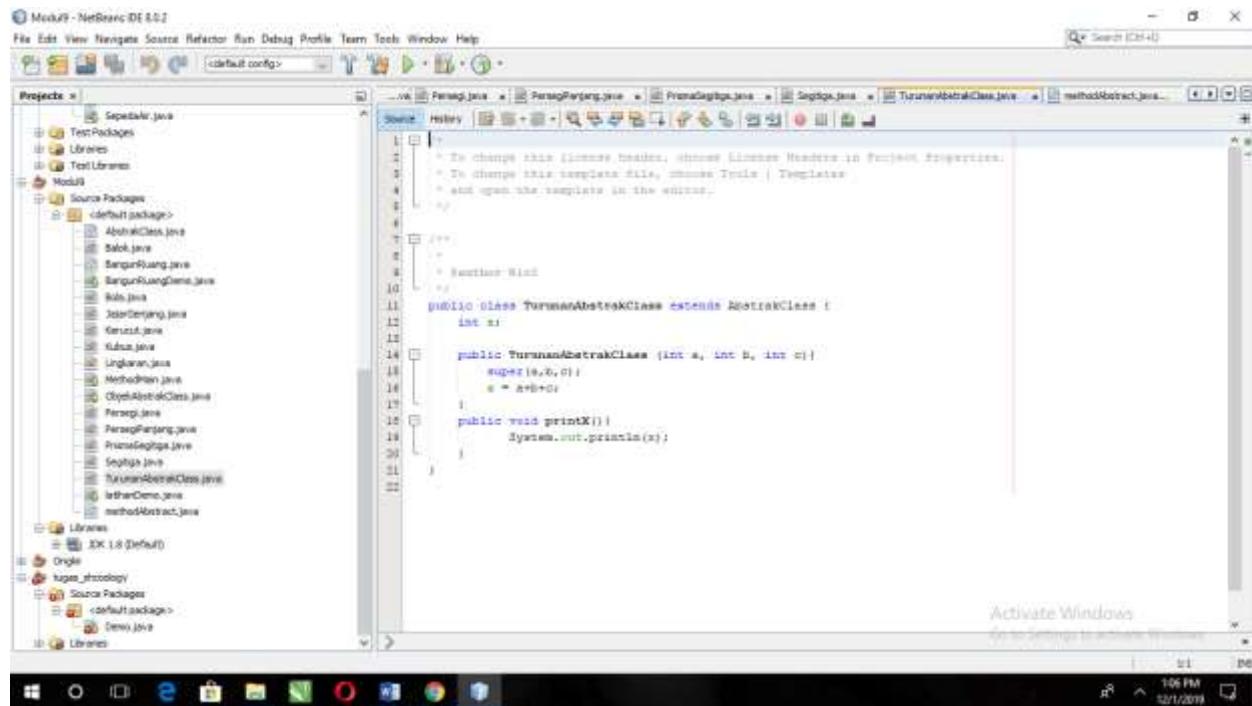
2) Object Class Abstraks



The screenshot shows the NetBeans IDE interface with the title "Modul9 - NetBeans IDE 8.0.2". The left pane displays the project structure under "Projects", showing packages like "Sedekah.java", "Test Packages", "Libraries", and "Modul9". The right pane shows the code editor with the file "ObjekAbstractClass.java" open. The code defines an abstract class "ObjekAbstractClass" with a static main method that creates an instance of "TurunanAbstractClass" and prints its result. A tooltip is visible above the code area.

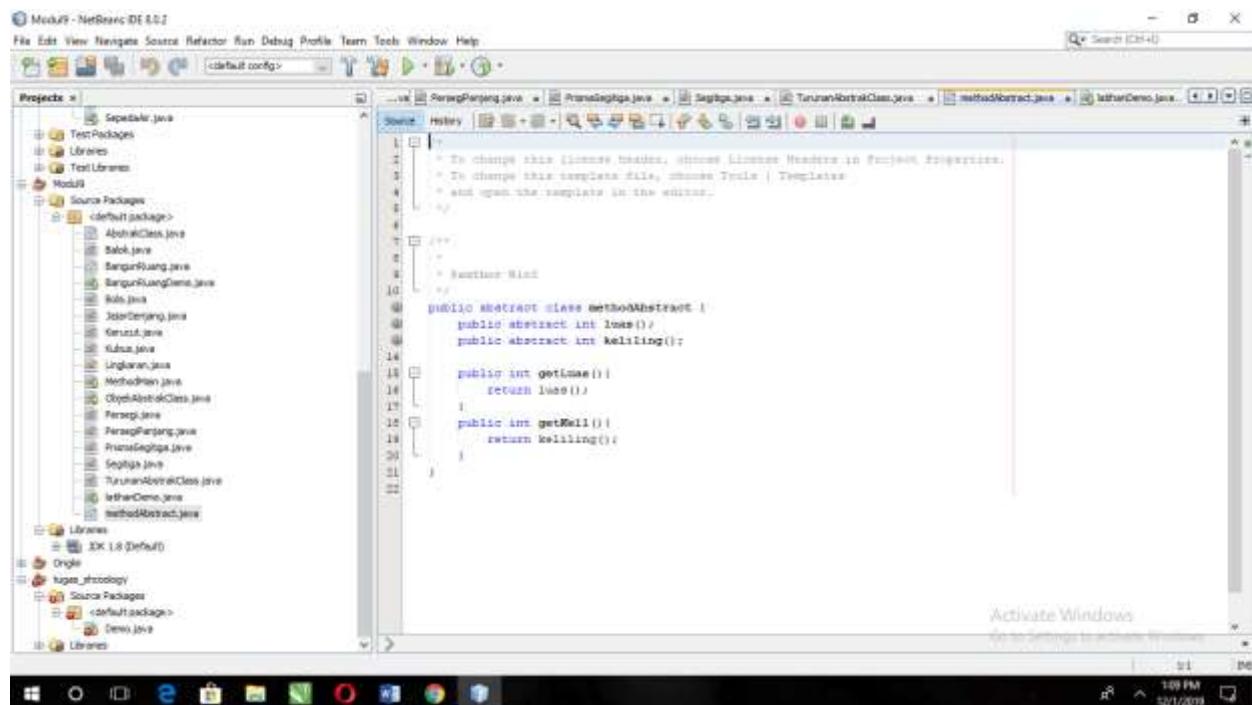
```
1 package Sedekah;
2
3 public abstract class ObjekAbstractClass {
4
5     public static void main(String[] args) {
6         TurunanAbstractClass tcc = new TurunanAbstractClass(3, 4, 5);
7         tcc.printK();
8     }
9 }
```

3) Turunan Abstrak Class



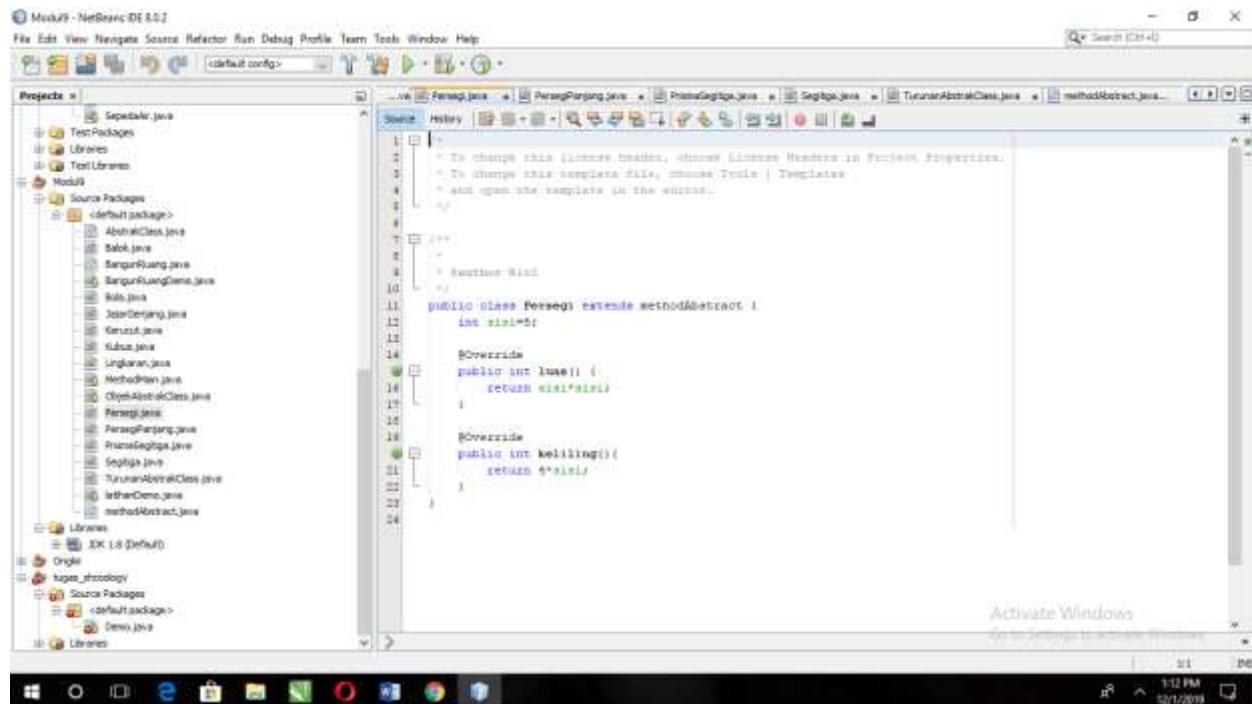
```
1 /**
2  * To change this license header, choose License Headers in Project properties.
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6
7 /**
8  * Section: Blank
9  */
10
11 public class TurunanAbstrakClass extends AbstractClass {
12     int x;
13
14     public TurunanAbstrakClass (int a, int b, int c) {
15         super(a,b,c);
16         x = a+b+c;
17     }
18
19     public void printX(){
20         System.out.println(x);
21     }
22 }
```

4) Method Abstraks



```
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
7 /**
8  * Section: Blank
9  */
10
11 public abstract class methodAbstract {
12     public abstract int lans();
13     public abstract int keliling();
14
15     public int getLans(){
16         return lans();
17     }
18
19     public int getKeliling(){
20         return keliling();
21     }
22 }
```

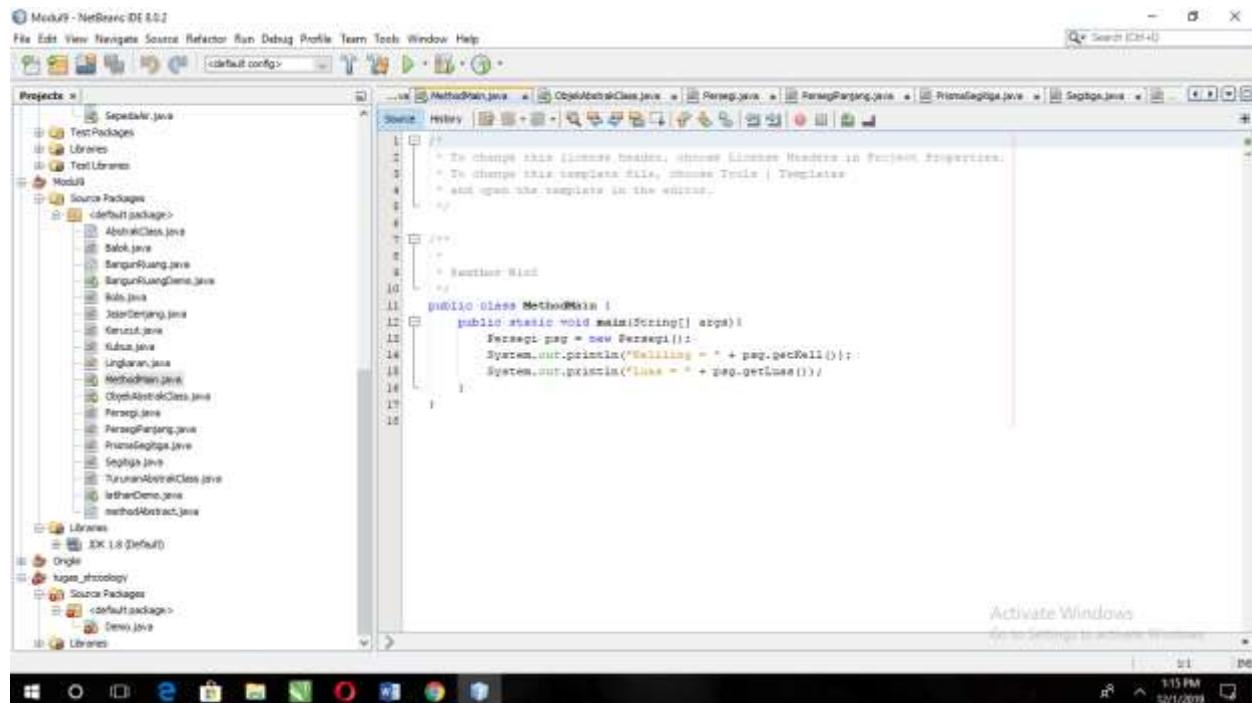
5) Public Class Persegi Extends MethodAbstraks



```
/*
 * To change this license header, choose License Headers in Project properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package methodAbstract;

public class Persegi extends methodAbstract {
    int size;
    
    @Override
    public int luas() {
        return size*size;
    }
    
    @Override
    public int keliling() {
        return 4*size;
    }
}
```

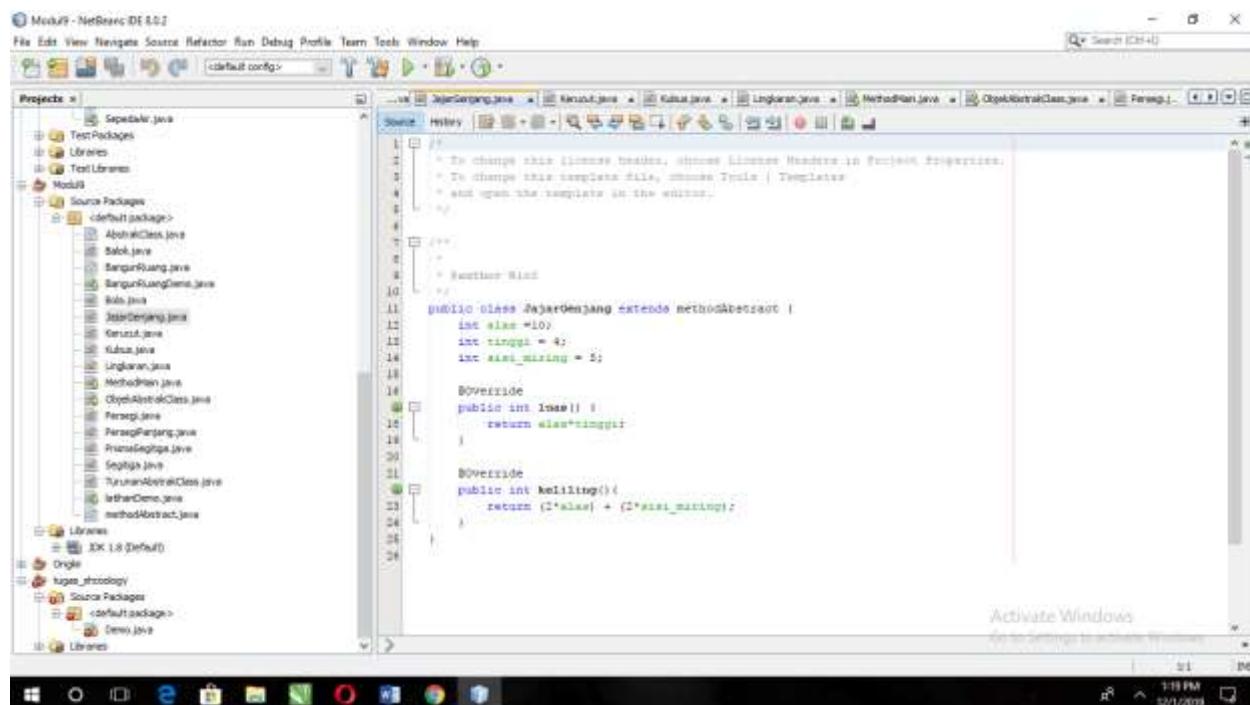
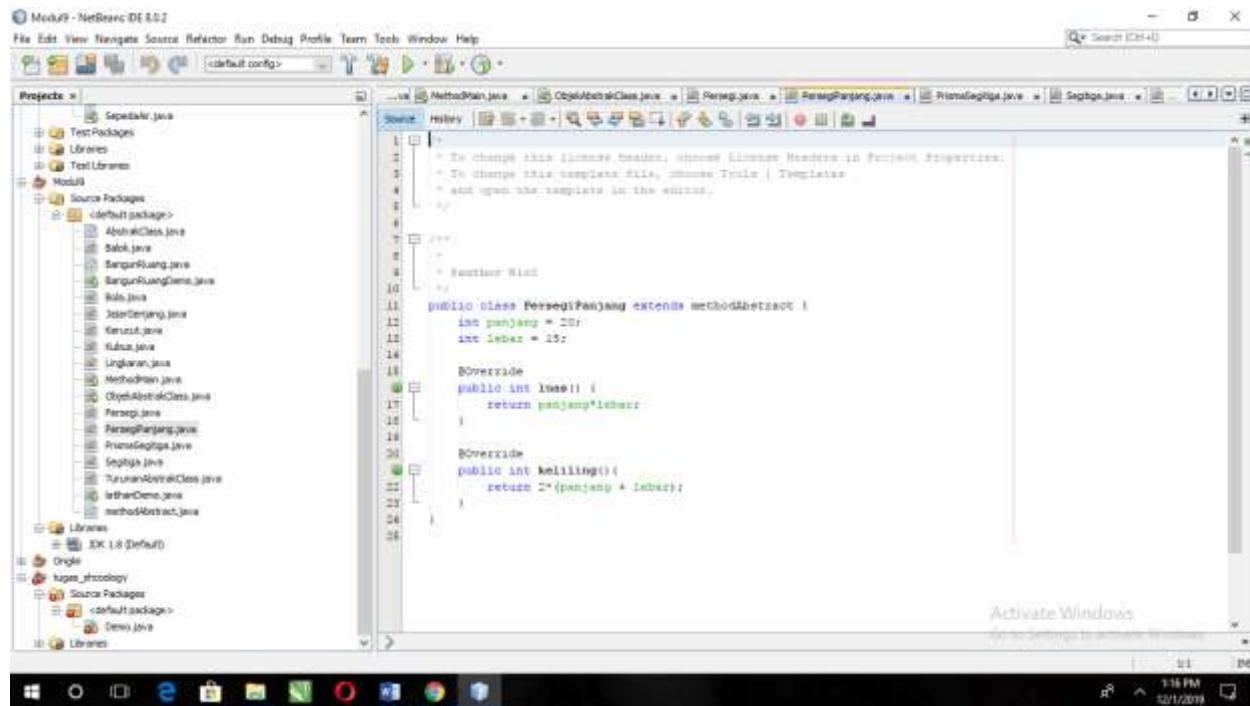
6) Class Method main



```
/*
 * To change this license header, choose License Headers in Project properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package methodAbstract;

public class MethodMain {
    public static void main(String[] args) {
        Persegi pg = new Persegi();
        System.out.println("keliling = " + pg.getKeliling());
        System.out.println("luas = " + pg.getLuas());
    }
}
```

LATIHAN :



Modul9 - NetBeans IDE 8.0.2

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

default config >

Projects Modul9

- Test Packages
- Libraries
- Test Libraries
- Modul9
- Source Packages
 - <default package>
 - AbsolutClass.java
 - Balok.java
 - BangunRuang.java
 - BangunRuangDemo.java
 - Bola.java
 - JajarGenjang.java
 - Kerucut.java
 - Kubus.java
 - Lingkaran.java
 - MethodDemo.java
 - ObyektAbsractClass.java
 - Persoep.java
 - PersoepPangr.java
 - PrismaSegitiga.java
 - Segitiga.java
 - TurunanAbstrakClass.java
 - latherDemo.java
 - methodAbstract.java
 - Libraries
 - = Jdk 1.8 (Default)
- Oneige
- Auges_physiology
- Source Packages
 - <default package>
 - Demo.java
 - Libraries

Source History

```
1 * To change this license header, choose License Headers in Project Properties.
2 * To change this template file, choose Tools | Templates.
3 * and open the template in the editor.
4 
5 /**
6 * Author: Rizki
7 */
8 
9 public class LingKaran extends metodaBasesat {
10     int r = 7;
11 
12     @Override
13     public int luas() {
14         return ((22*r*r)/7);
15     }
16 
17     @Override
18     public int keliling(){
19         return (2*22*r)/7;
20     }
21 }
22 
23 
```

Activate Windows Go to Settings to activate this feature

11:19 PM 12/1/2019

Modul9 - NetBeans IDE 8.0.2

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

default config >

Projects Modul9

- Test Packages
- Libraries
- Test Libraries
- Modul9
- Source Packages
 - <default package>
 - AbsolutClass.java
 - Balok.java
 - BangunRuang.java
 - BangunRuangDemo.java
 - Bola.java
 - JajarGenjang.java
 - Kerucut.java
 - Kubus.java
 - Lingkaran.java
 - MethodDemo.java
 - ObyektAbsractClass.java
 - Persoep.java
 - PersoepPangr.java
 - PrismaSegitiga.java
 - Segitiga.java
 - TurunanAbstrakClass.java
 - latherDemo.java
 - methodAbstract.java
 - Libraries
 - = Jdk 1.8 (Default)
- Oneige
- Auges_physiology
- Source Packages
 - <default package>
 - Demo.java
 - Libraries

Source History

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

Activate Windows Go to Settings to activate this feature

11:20 PM 12/1/2019

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

- Title Bar:** Modul9 - NetBeans IDE 8.0.2
- Menu Bar:** File Edit View Navigator Source Refactor Run Debug Profile Team Tools Window Help
- Toolbar:** Includes icons for New, Open, Save, Run, Stop, and others.
- Project Explorer:** Shows a tree view of projects and files, including `PrismaSegitiga.java`, `Bangun.java`, `TurunanAbstrakClass.java`, `methodNotExact.java`, and `latihanCerdas.java`.
- Output Window:** Displays build logs:

```
javac:
Wajiling Persegi Panjang = 70
Luas Persegi Panjang = 300

Wajiling Jajar Genjang = 30
Luas Jajar Genjang = 40

Wajiling Segitiga = 14
Luas Segitiga = 14

Wajiling Lingkaran = 44
Luas Lingkaran = 154
BUILD SUCCESSFUL (total time: 0 seconds)
```
- Code Editor:** The `latihanCerdas.java` file is open, showing Java code for calculating areas and perimeters of various shapes. The code includes imports for `java.util.Scanner` and `java.lang.Math`. It defines classes for `PersegiPanjang`, `JajarGenjang`, `Segitiga`, and `Lingkaran`, each with methods to calculate area and perimeter based on user input.
- Status Bar:** Shows "Activate Windows" and "Go to Settings for more..."
- Task List:** Shows a single item: "Finished building Module(s) [run]."
- System Tray:** Shows the date and time as 12:51 PM on 32/1/2019.

TUGAS :

The screenshot shows the Microsoft Visual Studio IDE interface with the following details:

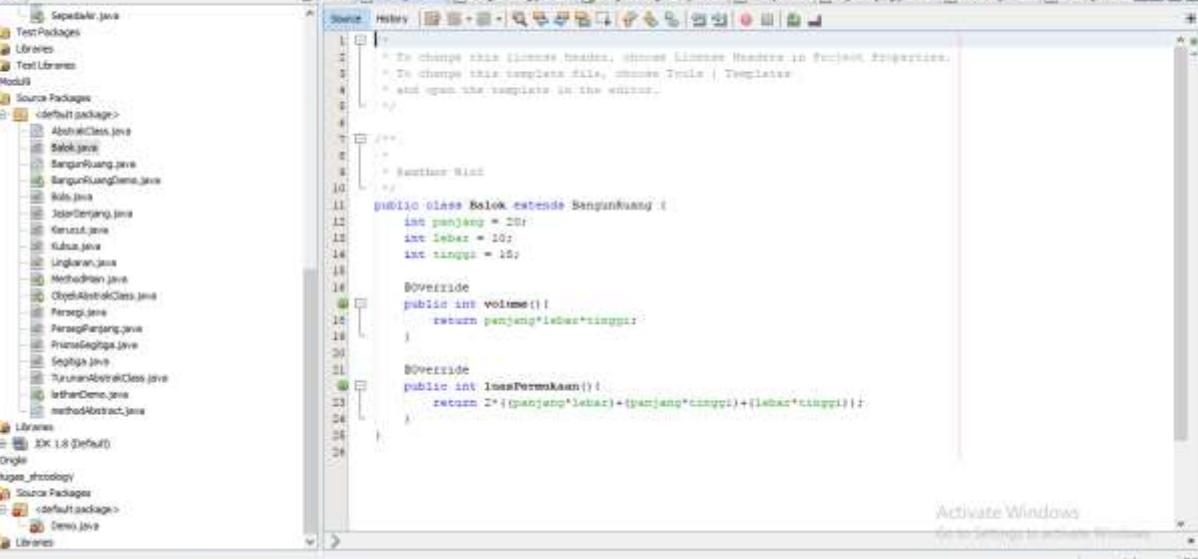
- Title Bar:** Modul9 - NetBeans IDE 8.0.2
- Menu Bar:** File Edit View Navigator Source Refactor Run Debug Profile Team Tools Window Help
- Search Bar:** Search (Ctrl+F)
- Toolbar:** Standard toolbar icons.
- Project Explorer:** Shows the project structure with packages like `sepatu`, `BangunRuang`, `BangunRuangDemo`, `Bola`, `JajarGenjang`, `Kerucut`, `Kubus`, `Lingkaran`, and `methodAbstract`.
- Toolbox:** Standard .NET toolbox icons.
- Code Editor:** Displays Java code for an abstract class `BangunRuang`. The code includes:

```
1  * To change this license header, choose License Headers in Project Properties.
2  * To change this template file, choose Tools | Templates
3  * and open the template in the editor.
4  *
5  */
6
7  /**
8   * Routine Wink
9  */
10 abstract class BangunRuang {
11     public abstract int volume();
12     public abstract int luasPermukaan();
13
14     public int getVolume(){
15         return volume();
16     }
17
18     public int getLuasPermukaan(){
19         return luasPermukaan();
20     }
21
22 }
23
```
- Status Bar:** Activate Windows
- Task List:** Shows items like `1324 PM` and `12/1/2019`.

Modul9 - NetBeans IDE 8.0.2

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

default config >   

Projects  

Source History 

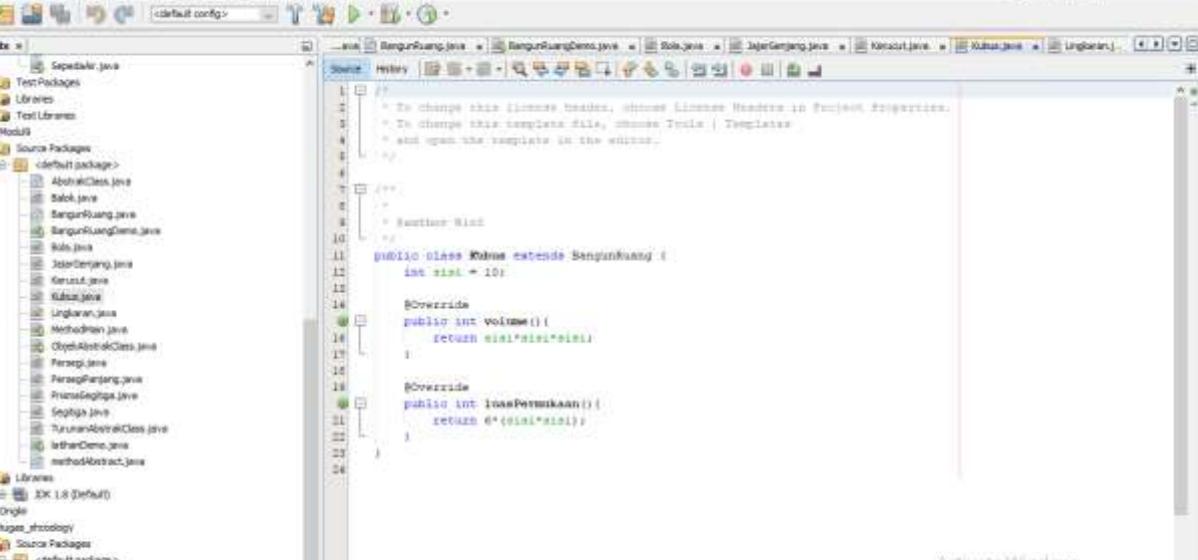
```
1 * To change this license header, choose License Headers in Project Properties.
2 * To change this template file, choose Tools | Templates.
3 * and open the template in the editor.
4
5 /**
6  * @author Hikmat
7 */
8
9 public class Balok extends BangunRuang {
10     int panjang = 20;
11     int lebar = 10;
12     int tinggi = 15;
13
14     @Override
15     public int volume() {
16         return panjang*lebar*tinggi;
17     }
18
19     @Override
20     public int luasPermukaan() {
21         return 2*(panjang*lebar)+(panjang*tinggi)+(lebar*tinggi);
22     }
23 }
24
25 
```

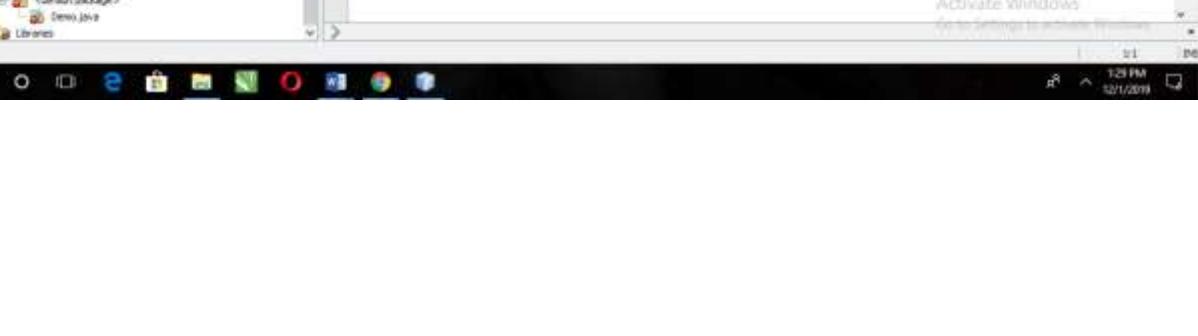
Activate Windows 

11:27 PM 12/1/2019

Modul9 - NetBeans IDE 8.0.2

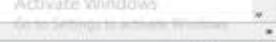
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

default config >  

Projects  

Source History 

```
1 * To change this license header, choose License Headers in Project Properties.
2 * To change this template file, choose Tools | Templates.
3 * and open the template in the editor.
4
5 /**
6  * @author Hikmat
7 */
8
9 public class Kubus extends BangunRuang {
10     int sisi = 10;
11
12     @Override
13     public int volume() {
14         return sisi*sisi*sisi;
15     }
16
17     @Override
18     public int luasPermukaan() {
19         return 6*(sisi*sisi);
20     }
21 }
22
23 
```

Activate Windows 

11:29 PM 12/1/2019

Modul9 - NetBeans IDE 8.0.2

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

default config >

Projects

Source History

BangunRuang.java BangunRuangDemo.java Bola.java Dijagonjang.java Kerucut.java Kubus.java Lingkaran.java

Source

```
* 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: Blank
 */
public class Kerucut extends BangunRuang {
    int r = 21;
    int t = 50;
    int s = 30;
    
    @Override
    public int volume() {
        return ((22*r*s)/7)/3;
    }

    @Override
    public int luasPermukaan() {
        return (22*s)/7)*(r+s);
    }
}
```

Activate Windows Go to Settings to activate Windows

131 PM 12/1/2019

Modul9 - NetBeans IDE 8.0.2

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

default config >

Projects

Source History

NetBola.java ObjekNormalClass.java Persegi.java PersegiPantjang.java PrismaSegitiga.java Segitiga.java

Source

```
* 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: Blank
 */
public class PrismaSegitiga extends BangunRuang {
    int alasRata = 36;
    int kelilingRata = 30;
    int tinggi = 20;

    @Override
    public int volume() {
        return alasRata*tinggi;
    }

    @Override
    public int luasPermukaan() {
        return (2*alasRata)+(kelilingRata*tinggi);
    }
}
```

Activate Windows Go to Settings to activate Windows

132 PM 12/1/2019

Modul9 - NetBeans IDE 8.0.2

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

default config > BangunRuangDemo.java

Output - Modul9 (run) # Projects

```
2011-11-11 13:34:46,280 INFO [main] main - Volume Balok = 1000  
Luas Permukaan Balok = 1330  
  
Volume Kubus = 1000  
Luas Permukaan Kubus = 400  
  
Volume Bola = 33500  
Luas Permukaan Bola = 1544  
  
Volume Kerucut = 10100  
Luas Permukaan Kerucut = 1144  
  
Volume Prisma Segitiga = 2800  
Luas Permukaan Prisma Segitiga = 1131  
BUILD SUCCESSFUL (total time: 3 seconds)
```

BangunRuangDemo.java

```
1 package bangunruang;  
2  
3 public class BangunRuangDemo {  
4     public static void main(String[] args){  
5         Balok blk = new Balok();  
6         System.out.println("Volume Balok = " + blk.getVolume());  
7         System.out.println("Luas Permukaan Balok = " + blk.getLuasPermukaan() + "\n");  
8  
9         Kubus kub = new Kubus();  
10        System.out.println("Volume Kubus = " + kub.getVolume());  
11        System.out.println("Luas Permukaan Kubus = " + kub.getLuasPermukaan());  
12  
13         Bola bl = new Bola();  
14         System.out.println("Volume Bola = " + bl.getVolume());  
15         System.out.println("Luas Permukaan Bola = " + bl.getLuasPermukaan());  
16  
17         Kerucut krc = new Kerucut();  
18         System.out.println("Volume Kerucut = " + krc.getVolume());  
19         System.out.println("Luas Permukaan Kerucut = " + krc.getLuasPermukaan());  
20  
21         PrismaSegitiga prsg = new PrismaSegitiga();  
22         System.out.println("Volume Prisma Segitiga = " + prsg.getVolume());  
23         System.out.println("Luas Permukaan Prisma Segitiga = " + prsg.getLuasPermukaan());  
24     }  
25 }
```

BangunRuangDemo > main

Activate Windows

13:34 PM 11/11/2019

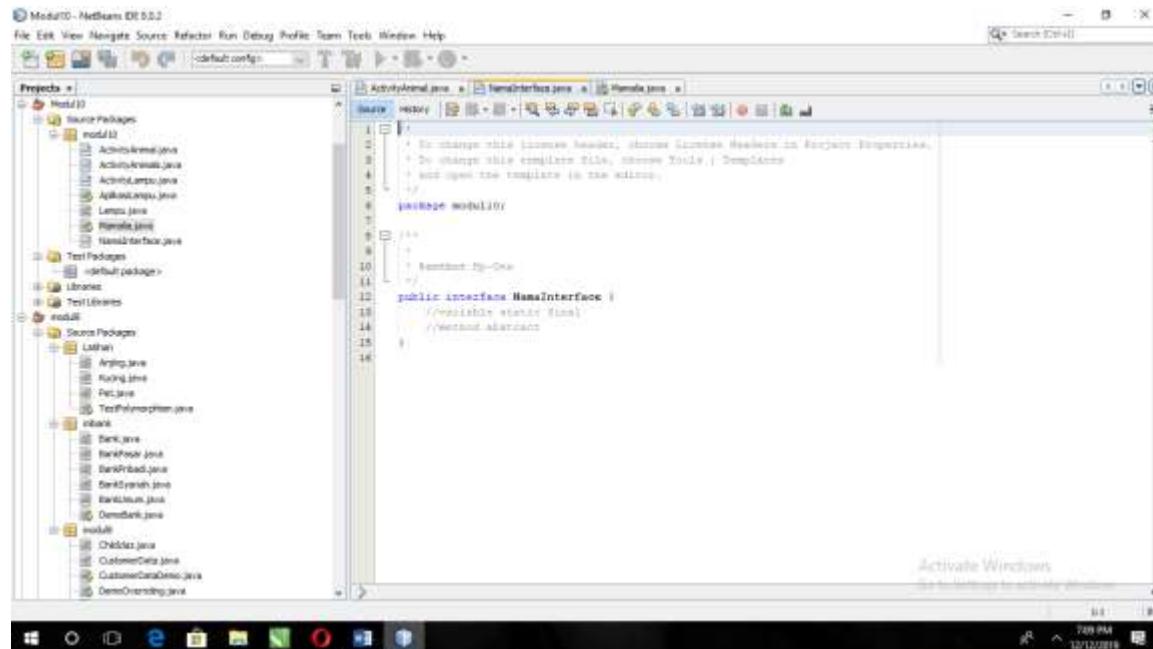
Nama : Defa Raffy Zanuar R

NIM : L200180068

Kelas : B

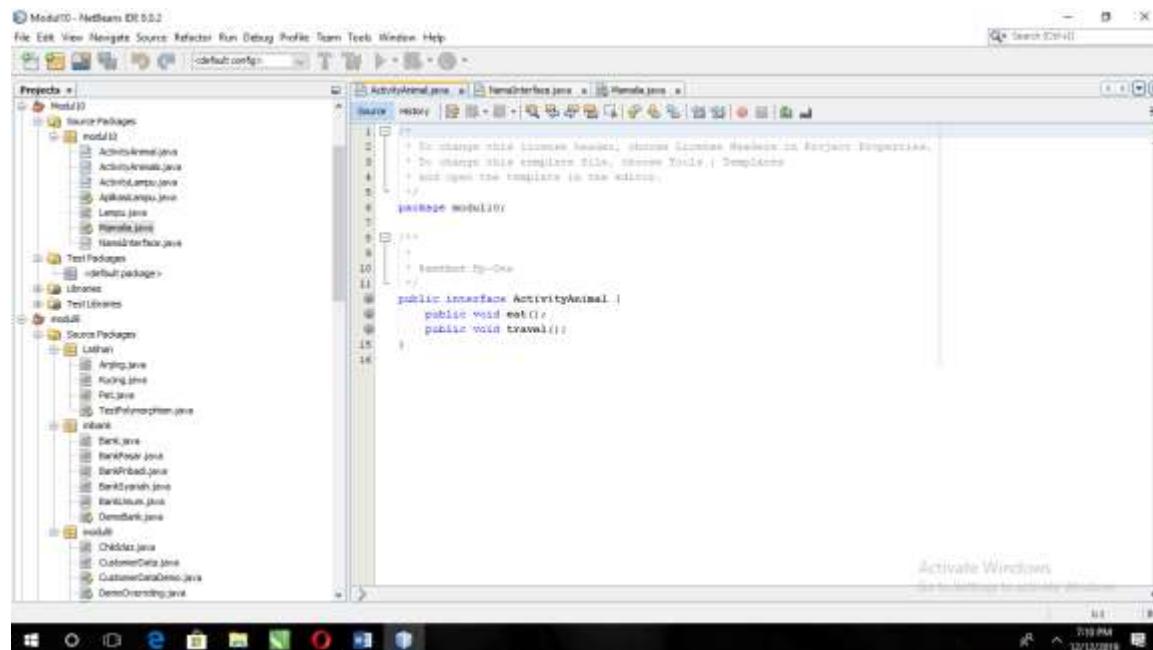
MODUL 10

1. MAMALIA



The screenshot shows the NetBeans IDE interface with the title "Modul10 - NetBeans IDE 8.0.2". The left pane displays the project structure under "Projects", showing packages like "mamal10", "mamal2", and "Latihan". The right pane shows the code editor with three tabs: "ActivityAnimal.java", "MammalInterface.java", and "Mammal.java". The "MammalInterface.java" tab is active, displaying the following code:

```
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 mamal10;
6
7 /**
8 * Mammal Interface
9 */
10 public interface MammalInterface {
11     //visible static final
12     //section alias
13 }
```



The screenshot shows the NetBeans IDE interface with the title "Modul10 - NetBeans IDE 8.0.2". The left pane displays the project structure under "Projects", showing packages like "mamal10", "mamal2", and "Latihan". The right pane shows the code editor with three tabs: "ActivityAnimal.java", "MammalInterface.java", and "Mammal.java". The "ActivityAnimal.java" tab is active, displaying the following code:

```
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 mamal10;
6
7 /**
8 * ActivityAnimal Interface
9 */
10 public interface ActivityAnimal {
11     public void eat();
12     public void travel();
13 }
```

Modul10 - NetBeans IDE 8.0.2

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

default config > Search (Ctrl+F)

Projects >

Modul10

- Source Packages
 - modul10
 - ActivityAnimal.java
 - ActivityAnimals.java
 - ActivityLampu.java
 - AplikasiLampu.java
 - Lampu.java
 - Mamalia.java
 - NeuterInterface.java
- Test Packages
 - default package
- Libraries
 - Test Libraries
- modul11
- Source Packages
 - Lahan
 - Aring.java
 - Kuung.java
 - Pet.java
 - TestPolymorphism.java
 - inbank
 - Bank.java
 - BankPAMM.java
 - BankPBBR.java
 - BankSYARAH.java
 - BankUmmat.java
 - Devidant.java
 - modul12
 - Chidz.java
 - CustomerData.java
 - CustomerDatabase.java
 - DemoOverriding.java
- modul13

Activities.java > NeuterInterface.java > Mamalia.java > ActivityAnimal.java > Mamalia.java > ActivityLampu.java > Lampu.java > AplikasiLampu.java

Source History + - + - - + - ad

```
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 modul10;
6 
7 /**
8 * 
9 */
10 
11 public class Mamalia implements ActivityAnimal {
12     public void eat(){
13         System.out.println("Mamalia eats");
14     }
15 
16     public void travel(){
17         System.out.println("Mamalia travels");
18     }
19 
20     public int noOfLegs(){
21         return 4;
22     }
23 
24     public static void main(String[] args) {
25         Mamalia m = new Mamalia();
26         m.eat();
27         m.travel();
28     }
29 }
30 
```

Activate Windows

10:19 AM 7:18 PM 12/12/2016

2. LAMPU

Modul10 - NetBeans IDE 8.0.2

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

default config > Search (Ctrl+F)

Projects >

Modul10

- Source Packages
 - modul10
 - ActivityAnimal.java
 - ActivityAnimals.java
 - ActivityLampu.java
 - AplikasiLampu.java
 - Lampu.java
 - Mamalia.java
 - NeuterInterface.java
- Test Packages
 - default package
- Libraries
 - Test Libraries
- modul11
- Source Packages
 - Lahan
 - Aring.java
 - Kuung.java
 - Pet.java
 - TestPolymorphism.java
 - inbank
 - Bank.java
 - BankPAMM.java
 - BankPBBR.java
 - BankSYARAH.java
 - BankUmmat.java
 - Devidant.java
 - modul12
 - Chidz.java
 - CustomerData.java
 - CustomerDatabase.java
 - DemoOverriding.java
- modul13

Activities.java > NeuterInterface.java > Mamalia.java > ActivityAnimal.java > ActivityLampu.java > Lampu.java > AplikasiLampu.java

Source History + - + - - + - ad

```
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 modul10;
6 
7 /**
8 * 
9 */
10 
11 public interface ActivityLampu {
12     public static final int LANGU_SIDOPWI=1;
13     public static final int LANGU_MAYD=0;
14     public static final int LANGU_RANGKUP=0;
15     public abstract void matikanLampu();
16     public abstract void hidangkanLampu();
17     public abstract void redangkanLampu();
18 }
19 
```

Activate Windows

10:19 PM 7:14 PM 12/12/2016

Modulo10 - NetBeans IDE 8.0.2

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

default config > ActivityLampu.java

Source History

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates.
 * and open the template in the editor.
 */

package modul10;

/**
 * Another Up-Date
 */
public class Lampu implements ActivityLampu {
    public int statusLampu;

    @Override
    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");
        }
    }

    @Override
    public void hidupkanLampu() {
        if (statusLampu==1) {
            System.out.println("Lampu sudah mengalami error");
        }
    }
}
```

Activate Windows

7:14 PM 12/12/2019

Modulo10 - NetBeans IDE 8.0.2

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

default config > AplikasiLampu.java

Source History

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates.
 * and open the template in the editor.
 */

package modul10;

import java.util.Scanner;

/**
 * Another Up-Date
 */
public class AplikasiLampu {
    public static void main(String[] args) {
        Lampu lampu = new Lampu();
        Scanner sc = new Scanner(System.in);
        lampu.setStatusLampu = lampu.setAktif(0);
        System.out.println("Dimulai Lampu = "+lampu.getStatusLampu+"(off/berjalan)");
        System.out.println("1. On/Off Lampu");
        System.out.println("2. Status Masuk/Out");
        System.out.println("3. Status Berjalan Lampu");
        System.out.println("4. Status Matikan Lampu");

        int input = sc.nextInt();
        if (lampu.setAktif(input)==0) {
            lampu.matikanLampu();
        } else if (lampu.setAktif(input)==1) {
            lampu.hidupkanLampu();
        } else {
            lampu.redapatkanLampu();
        }
    }
}
```

Activate Windows

7:15 PM 12/12/2019

Modul10 - NetBeans IDE 8.0.2

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

Output - Modul10 (run) Projects StartPage ActivityLampu.java Lampu.java AplikasiLampu.java

```
1 // To change this license header, choose License Headers in Project Properties.
2 // To change this template file, choose Tools | Templates.
3 // and open the template in the editor.
4
5 package modul10;
6
7 import java.util.Scanner;
8
9 /**
10 * Another Sp-Dem
11 */
12
13 public class AplikasiLampu {
14     public static void main(String[] args) {
15         Lampu lampu = new Lampu();
16         Scanner sc = new Scanner(System.in);
17         lampu.setStatusLampu = lampu.setSaklar(0);
18         System.out.println("Status Lampu = "+lampu.getStatusLampu());
19         System.out.println("1 Untuk Mengalihkan Lampu");
20         System.out.println("2 Untuk Mematikan Lampu");
21         System.out.println("3 Untuk Menghidupkan Lampu");
22
23         int input = sc.nextInt();
24         if (lampu.setSaklar(input)==0){
25             lampu.matiLampu();
26         }else if (lampu.setSaklar(input)==1){
27             lampu.hidupkanLampu();
28         }else{
29             lampu.redupkanLampu();
30         }
31     }
32 }
```

modul10.AplikasiLampu >

Activate Windows
Go to Settings to activate Windows

19:29 7:17 PM 12/12/2019

Modul10 - NetBeans IDE 8.0.2

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

Output - Modul10 (run) Projects StartPage ActivityLampu.java Lampu.java AplikasiLampu.java

```
1 // To change this license header, choose License Headers in Project Properties.
2 // To change this template file, choose Tools | Templates.
3 // and open the template in the editor.
4
5 package modul10;
6
7 import java.util.Scanner;
8
9 /**
10 * Another Sp-Dem
11 */
12
13 public class AplikasiLampu {
14     public static void main(String[] args) {
15         Lampu lampu = new Lampu();
16         Scanner sc = new Scanner(System.in);
17         lampu.setStatusLampu = lampu.setSaklar(0);
18         System.out.println("Status Lampu = "+lampu.getStatusLampu());
19         System.out.println("1 Untuk Mengalihkan Lampu");
20         System.out.println("2 Untuk Mematikan Lampu");
21         System.out.println("3 Untuk Menghidupkan Lampu");
22
23         int input = sc.nextInt();
24         if (lampu.setSaklar(input)==0){
25             lampu.matiLampu();
26         }else if (lampu.setSaklar(input)==1){
27             lampu.hidupkanLampu();
28         }else{
29             lampu.redupkanLampu();
30         }
31     }
32 }
```

modul10.AplikasiLampu >

Activate Windows
Go to Settings to activate Windows

19:29 7:18 PM 12/12/2019

Modul10 - NetBeans IDE 8.0.2

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

Output - Modul10 (run) Projects

StartPage > ActivityLampu.java > Lampu.java > AplikasiLampu.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 modul10;  
7  
8 import java.util.Scanner;  
9  
10 public class AplikasiLampu {  
11       
12     /* Another by-Oem */  
13       
14     public static void main(String[] args) {  
15         Lampu lampu = new Lampu();  
16         Scanner sc = new Scanner(System.in);  
17         lampu.setAktif(0);  
18         System.out.println("Status Lampu = "+lampu.getStatusLampu());  
19         System.out.println("1 Untuk Mengalihkan Lampu");  
20         System.out.println("2 Untuk Mematikan Lampu");  
21         System.out.println("3 Untuk Menghidupkan Lampu");  
22         System.out.println("4 Untuk Keluar");  
23           
24         int input = sc.nextInt();  
25         if (lampu.setAktif(input)==0){  
26             lampu.matiLampu();  
27         }else if (lampu.setAktif(input)==1){  
28             lampu.hidupkanLampu();  
29         }else{  
30             lampu.redupkanLampu();  
31         }  
32     }  
33 }
```

Activate Windows

Windows Firewall

11:0 106

7:18 PM 12/12/2016

MODUL 11

NESTED CLASS

PRAKTIKUM PEMROGRAMAN BERORIENTASI OBJEK

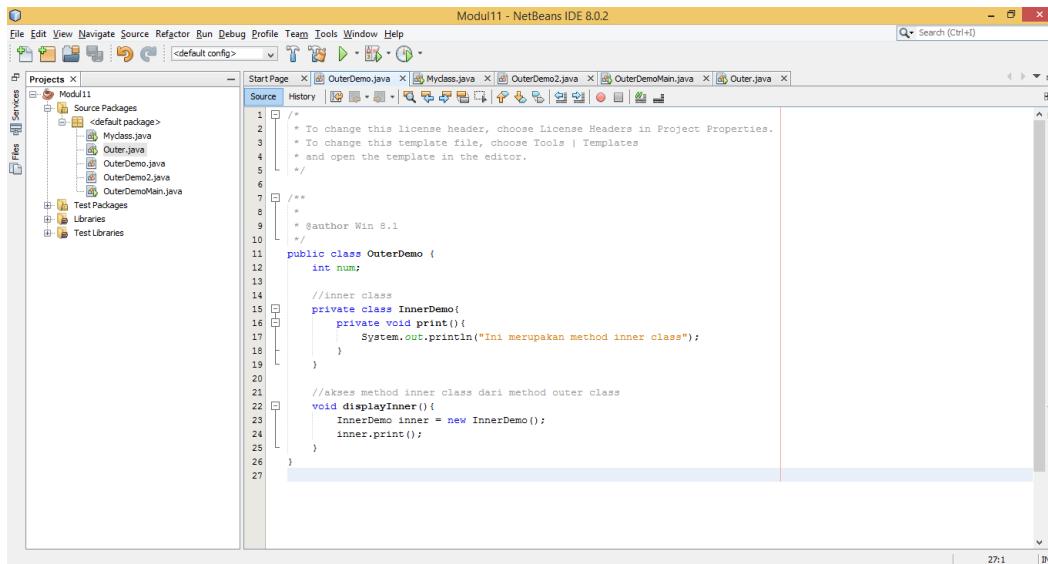
Nama : Defa Raffy Z.R

NIM : L200180068

Kelas : B

❖ 11.1 INNER CLASS (NON-STATIC NESTED CLASS)

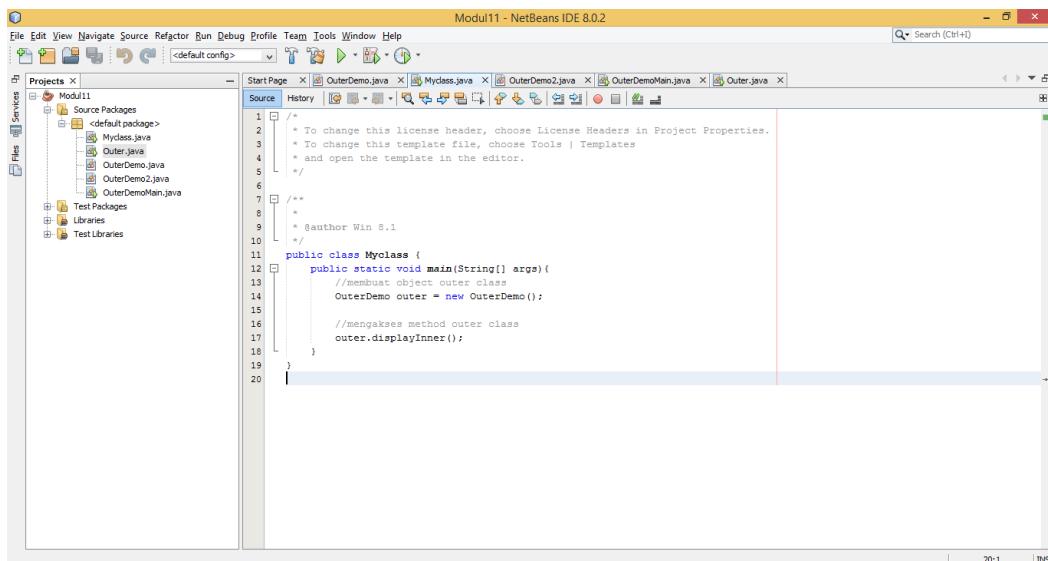
➤ Program 2. Pengaksesan Properties pada Inner Class



The screenshot shows the NetBeans IDE interface with the title "Modul11 - NetBeans IDE 8.0.2". The left panel displays the project structure under "Projects X" with files like OuterDemo.java, Myclass.java, Outer.java, OuterDemo.java, OuterDemo2.java, OuterDemoMain.java, and Outer.java. The right panel shows the code editor with the following Java code:

```
/*
 * 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.
 */
public class OuterDemo {
    int num;
    //inner class
    private class InnerDemo{
        private void print(){
            System.out.println("Ini merupakan method inner class");
        }
    }
    //akses method inner class dari method outer class
    void displayInner(){
        InnerDemo inner = new InnerDemo();
        inner.print();
    }
}
```

➤ Program 3. Menjalankan (run) Inner Class Melalui Metode main()



The screenshot shows the NetBeans IDE interface with the title "Modul11 - NetBeans IDE 8.0.2". The left panel displays the project structure under "Projects X" with files like OuterDemo.java, Myclass.java, Outer.java, OuterDemo.java, OuterDemo2.java, OuterDemoMain.java, and Outer.java. The right panel shows the code editor with the following Java code:

```
/*
 * 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.
 */
public class Myclass {
    public static void main(String[] args){
        //membuat object outer class
        OuterDemo outer = new OuterDemo();

        //mengakses method outer class
        outer.displayInner();
    }
}
```

- Output dari program 3

```
Modul11 - NetBeans IDE 8.0.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
default config Start Page OuterDemo.java Myclass.java OuterDemo2.java OuterDemoMain.java Outer.java NestedClass.java NestedClassDemo.java
Projects Modul11 (run)
Output : Output - Modul11 (run)
run
Ini merupakan method inner class
BUILD SUCCESSFUL (total time: 0 seconds)

20:1 20:1 ING
```

❖ 11.2 MENGAKSES PRIVATE MEMBER

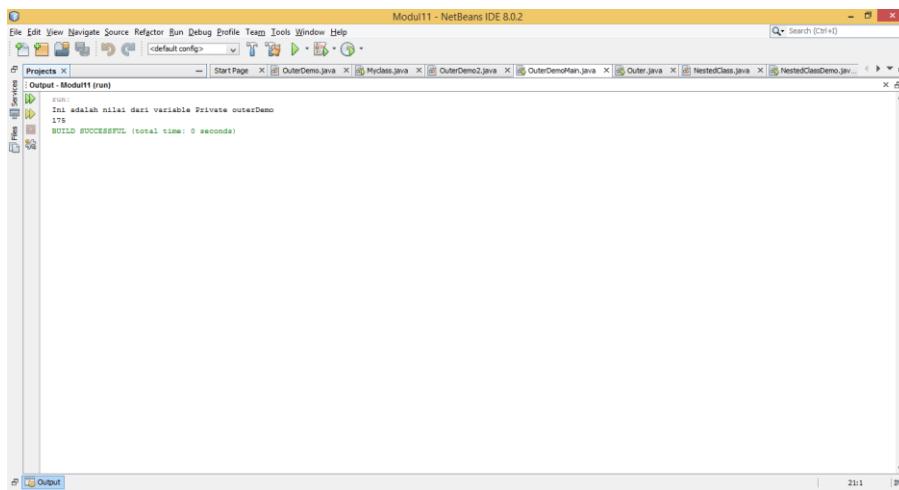
➤ Program 4. Mengakses Variable Private

```
Modul11 - NetBeans IDE 8.0.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
default config Start Page OuterDemo.java Myclass.java OuterDemo2.java OuterDemoMain.java Outer.java
Projects Modul11
Source Packages < default package >
Outer.java
OuterDemo.java
OuterDemo2.java
OuterDemoMain.java
Test Packages
Libraries
Test Libraries
Source History < OuterDemo2.java > OuterDemo2.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
7 /**
8  * @author Win 8.1
9  */
10
11 public class OuterDemo2 {
12     private int num = 175;
13
14     public class Inner_Demo{
15         public int getNum(){
16             System.out.println("Ini adalah nilai dari variable Private outerDemo");
17             return num;
18         }
19     }
20 }
21
```

➤ Program 5. Class dengan Method main() untuk Mengakses Variable Private

```
Modul11 - NetBeans IDE 8.0.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
default config Start Page OuterDemo.java Myclass.java OuterDemo2.java OuterDemoMain.java Outer.java
Projects Modul11
Source Packages < default package >
Outer.java
OuterDemo.java
OuterDemo2.java
OuterDemoMain.java
Test Packages
Libraries
Test Libraries
Source History < OuterDemoMain.java > OuterDemoMain.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
7 /**
8  * @author Win 8.1
9  */
10
11 public class OuterDemoMain {
12     public static void main(String[] args){
13         //membuat object outerDemo
14         OuterDemo2 outer = new OuterDemo2();
15
16         //membuat object InnerDemo
17         OuterDemo2.Inner_Demo inner = outer.new Inner_Demo();
18         System.out.println(inner.getNum());
19     }
20 }
21
```

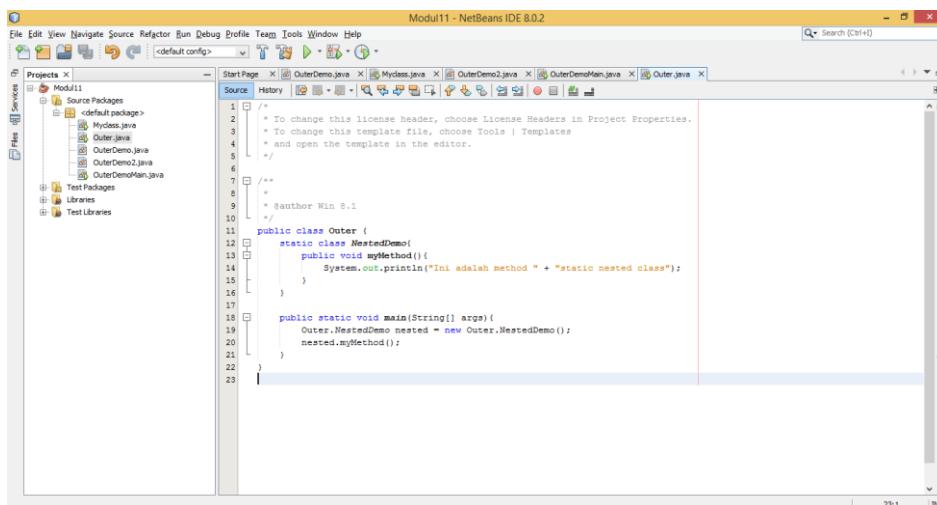
■ Output Program 5



```
Modul11 - NetBeans IDE 8.0.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Projects X Start Page X OuterDemo.java X Myclass.java X OuterDemo2.java X OuterDemoMain.java X Outer.java X NestedClass.java X NestedClassDemo.java X
Output - Modul11 (run)
run:
    Ini adalah nilai dari variable Private outerDemo
    175
BUILD SUCCESSFUL (total time: 0 seconds)
```

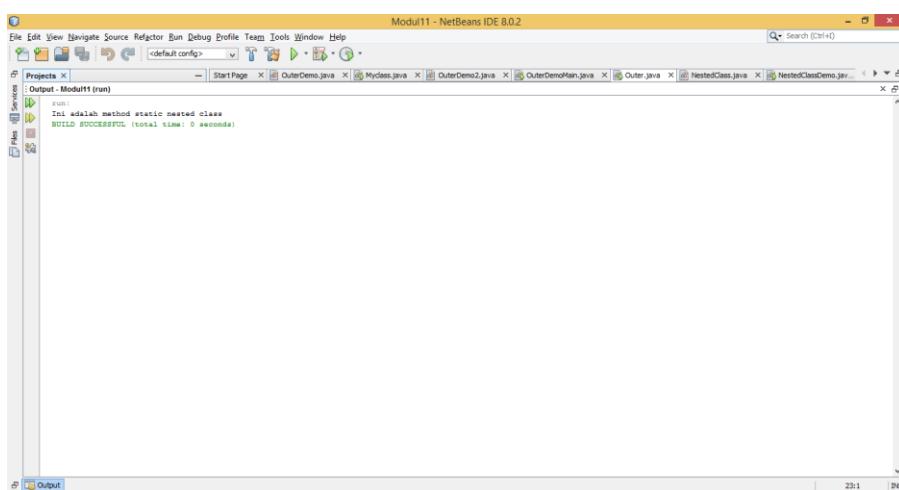
❖ 11.3 STATIC NESTED CLASS

➤ Program 6. Membuat Instance dari Static Nested Class



```
Modul11 - NetBeans IDE 8.0.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Projects X Start Page X OuterDemo.java X Myclass.java X OuterDemo2.java X OuterDemoMain.java X Outer.java X
Outer.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
7 /**
8  *
9  * @author Win 8.1
10 */
11 public class Outer {
12     static class NestedDemo{
13         public void myMethod(){
14             System.out.println("Ini adalah method " + "static nested class");
15         }
16     }
17
18     public static void main(String[] args){
19         Outer.NestedDemo nested = new Outer.NestedDemo();
20         nested.myMethod();
21     }
22 }
23
```

■ Output Program 6



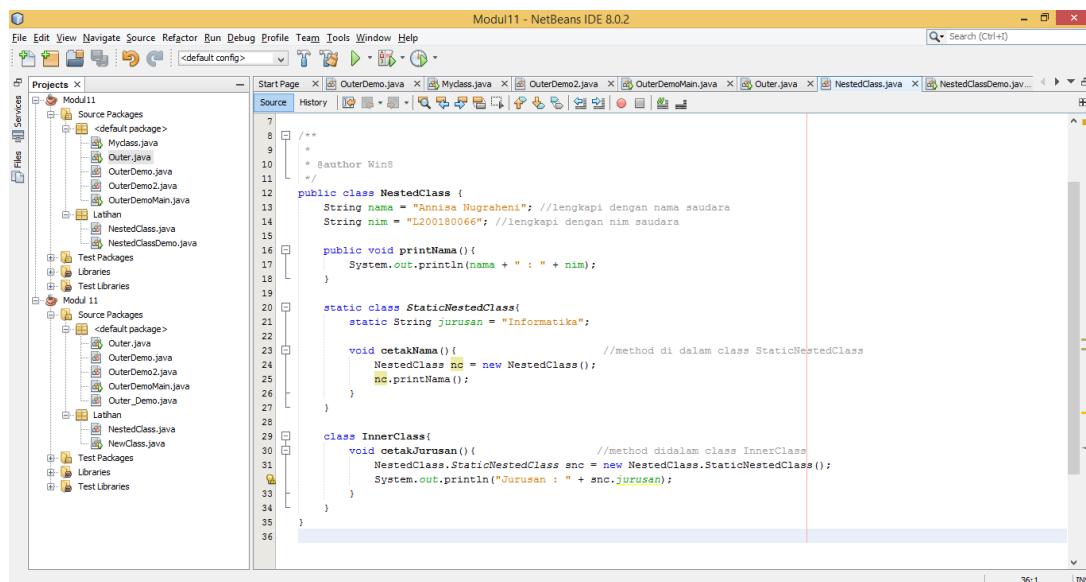
```
Modul11 - NetBeans IDE 8.0.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Projects X Start Page X OuterDemo.java X Myclass.java X OuterDemo2.java X OuterDemoMain.java X Outer.java X NestedClass.java X NestedClassDemo.java X
Output - Modul11 (run)
run:
    Ini adalah method static nested class
BUILD SUCCESSFUL (total time: 0 seconds)
```

❖ 11.4 LATIHAN

Mengisikan Nama dan NIM pada variabel, membuat method di dalam class StaticNestedClass untuk mengakses method printNama(), membuat method di dalam InnerClass untuk mengakses variabel jurusan, dan membuat class dengan fungsi main() untuk menampilkan hasil dari kode program.

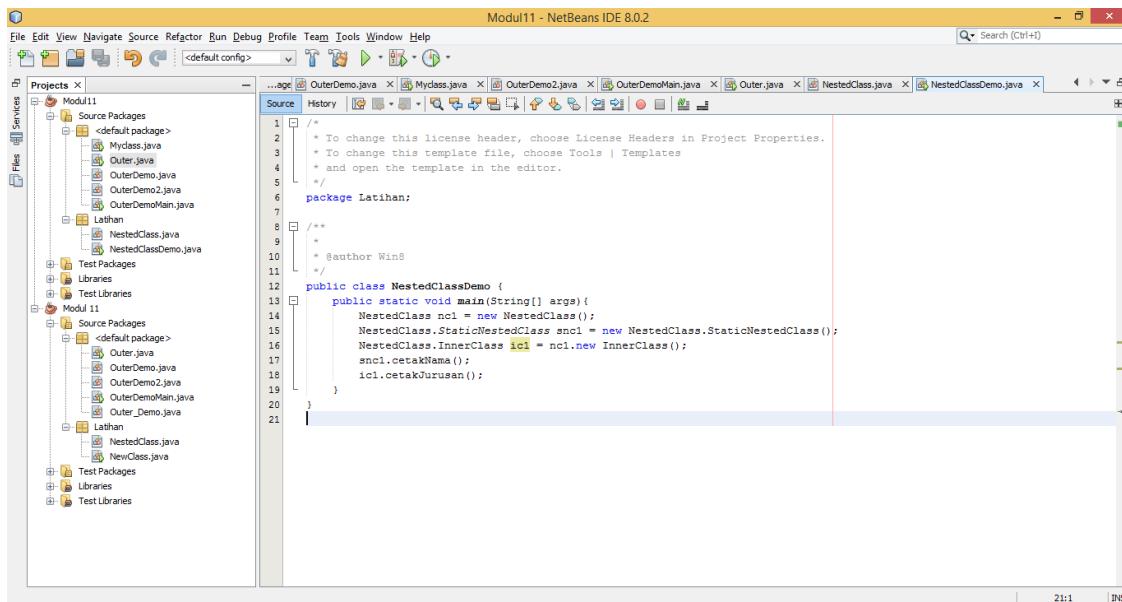
➤ Program 7. Soal Latihan Nested Class

▪ Class NestedClass



```
Modul11 - NetBeans IDE 8.0.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
<default config>
Start Page OuterDemo.java Myclass.java OuterDemo2.java OuterDemoMain.java Outer.java NestedClass.java NestedClassDemo.java
Projects Modul11
  Source Packages
    <default package>
      Myclass.java
      Outer.java
      OuterDemo.java
      OuterDemo2.java
      OuterDemoMain.java
    Lathan
      NestedClass.java
      NestedClassDemo.java
  Test Packages
  Libraries
  Test Libraries
Modul 11
  Source Packages
    <default package>
      OuterDemo.java
      OuterDemo2.java
      OuterDemoMain.java
      Outer_Demo.java
    Lathan
      NestedClass.java
      NewClass.java
  Test Packages
  Libraries
  Test Libraries
Source History
7 /**
8  * 
9  * @author Win8
10 */
11 public class NestedClass {
12     String nama = "Annisa Nugraheni"; //lengkapi dengan nama saudara
13     String nim = "L200180066"; //lengkapi dengan nim saudara
14
15     /**
16      * 
17      * @param args
18      */
19
20     public void printNama(){
21         System.out.println(nama + " : " + nim);
22     }
23
24     static class StaticNestedClass{
25         static String jurusan = "Informatika";
26
27         void cetakNama(){
28             NestedClass nc = new NestedClass();
29             nc.printNama();
30         }
31
32         class InnerClass{
33             void cetakJurusan(){
34                 NestedClass.StaticNestedClass snc = new NestedClass.StaticNestedClass();
35                 System.out.println("Jurusan : " + snc.jurusan);
36             }
37         }
38     }
39 }
40 
```

➤ Class NestedClassDemo (main class)



```
Modul11 - NetBeans IDE 8.0.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
<default config>
Start Page OuterDemo.java Myclass.java OuterDemo2.java OuterDemoMain.java Outer.java NestedClass.java NestedClassDemo.java
Projects Modul11
  Source Packages
    <default package>
      Myclass.java
      Outer.java
      OuterDemo.java
      OuterDemo2.java
      OuterDemoMain.java
    Lathan
      NestedClass.java
      NestedClassDemo.java
  Test Packages
  Libraries
  Test Libraries
Modul 11
  Source Packages
    <default package>
      OuterDemo.java
      OuterDemo2.java
      OuterDemoMain.java
      Outer_Demo.java
    Lathan
      NestedClass.java
      NewClass.java
  Test Packages
  Libraries
  Test Libraries
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 Lathan;
7
8 /**
9  * 
10 * @author Win8
11 */
12 public class NestedClassDemo {
13     public static void main(String[] args){
14         NestedClass ncl = new NestedClass();
15         NestedClass.StaticNestedClass snc1 = new NestedClass.StaticNestedClass();
16         NestedClass.InnerClass ic1 = ncl.new InnerClass();
17         snc1.cetakNama();
18         ic1.cetakJurusan();
19     }
20 }
21 
```

➤ Output dari program pada latihan

The screenshot shows the NetBeans IDE interface with the title bar "Modul11 - NetBeans IDE 8.0.2". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help. The toolbar has icons for file operations like New, Open, Save, and Build. The Projects tab shows a project named "Modul11 (run)" with files like OuterDemo.java, Myclass.java, OuterDemo2.java, OuterDemoMain.java, Outer.java, NestedClass.java, and NestedClassDemo.java. The Output tab displays the following text:

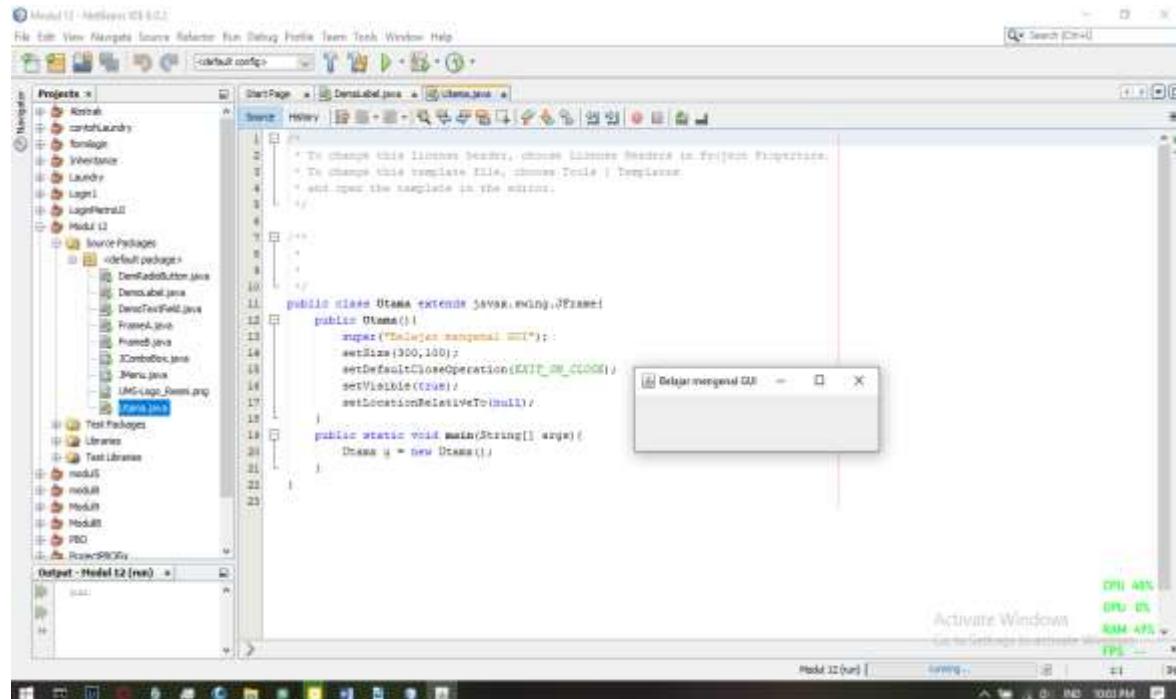
```
run:  
Anisa Nugraheni : L200180066  
Jurusan : Informatika  
BUILD SUCCESSFUL (total time: 0 seconds)
```

The status bar at the bottom right shows the time as 21:1 and the user as INS.

MODUL 12 GRAPHICAL USER INTERFACE

Nama : Defa Raffy Zanuar R
NIM : L200180068
Kelas : B

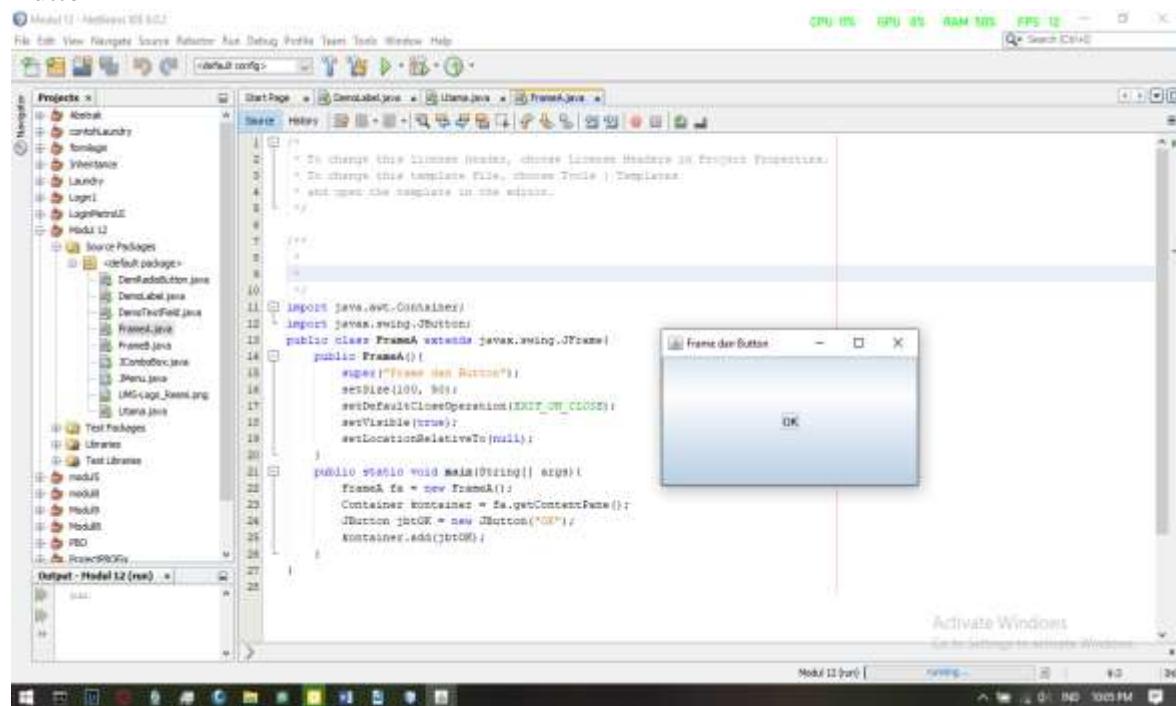
Frame



Konstruktor	Keterangan
JFrame()	Membuat JFrame tanpa judul
JFrame(String Judul)	Membuat JFrame dengan judul

Metode	Keterangan
void setSize(int lebar, int tinggi)	Menentukan ukuran frame
void setLocation(int x, int y)	Menentukan lokasi frame dihitung dari kiri atas
void setVisible(Boolean)	Menentukan JFrame ditampilkan atau tidak
void setLocationRelativeTo(Component)	Menentukan letak JFrame relative dengan komponen lainnya. Jika diset null, maka JFrame akan ditampilkan di tengah.

Button



Konstruktor	Keterangan
JButton()	Membuat JButton tanpa teks maupun icon
JButton(String teks)	Membuat JButton dengan teks
JButton(Icon icon)	Membuat JButton dengan icon
JButton(String teks, Icon icon)	Membuat JButton dengan teks dan icon

Label



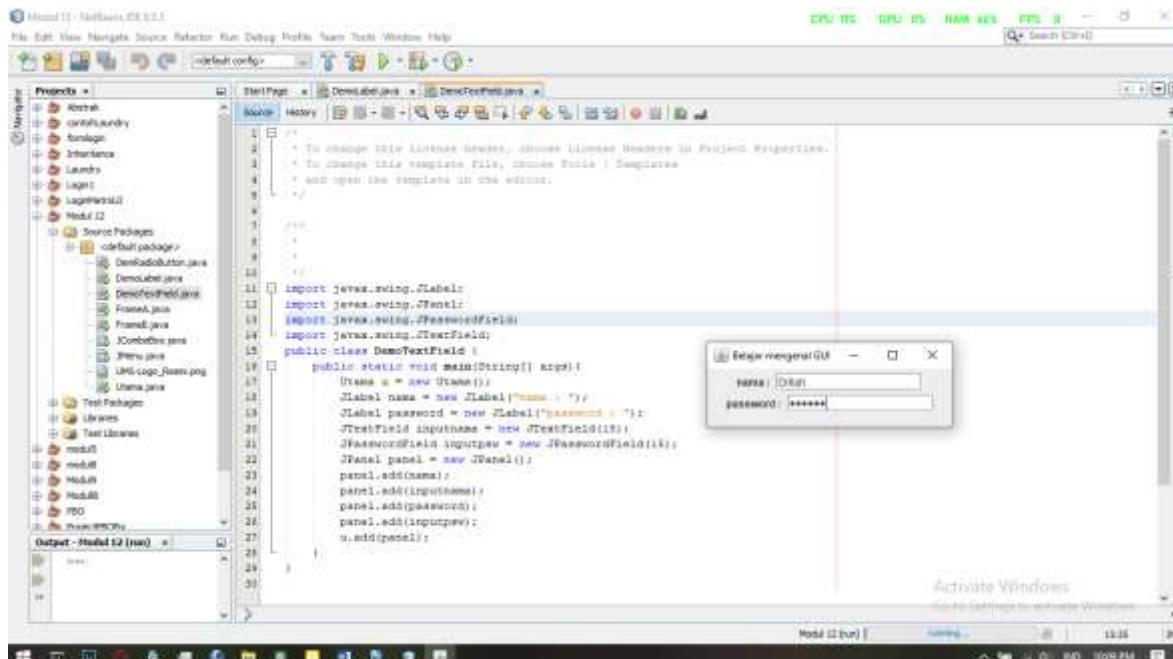
The screenshot shows the NetBeans IDE interface with the following details:

- Title Bar:** Model 12 - NetBeans IDE 8.0.1
- Toolbar:** Standard tools like File, Edit, View, Navigate, Source, Register, Run, Debug, Projects, Tools, Task, Window, Help.
- Status Bar:** CPU 7% GPU 1% RAM 44% FPS 8
- Search Bar:** Search Ctrl+F
- Left Panel (Properties):** Shows the project structure:
 - Nodes: Model 12, Default package, DefaultLabel.java, DefaultLabel.png, DefaultLabel.properties, Frame.java, FramePanel.java, Koneksi.java, Main.java, Main.properties, Model 12 logo_resizing.png, User.java.
 - Test Packages: None.
 - Libraries: None.
 - Test Utilities: None.
- Central Editor:** Displays Java code for the DefaultLabel class.

```
1 import java.awt.Image;
2 import javax.swing.ImageIcon;
3 import javax.swing.JLabel;
4 import javax.swing.JPanel;
5 import javax.swing.SpringLayout;
6
7 /**
8 * To change this license header, choose License Headers in Project Properties.
9 * To change this template file, choose Tools > Templates
10 * and open the template in the editor.
11 */
12
13
14
15
16
17
18 public class DefaultLabel {
19     public static void main(String[] args) {
20         JFrame u = new JFrame();
21         u.setSize(600, 300);
22         URL img = Model12.class.getResource("Model 12 logo_resizing.png");
23         ImageIcon ikm = new ImageIcon(img);
24         JLabel label = new JLabel("Label", ikm, SwingConstants.CENTER);
25         JPanel panel = new JPanel();
26         panel.add(label);
27         u.add(panel);
28     }
29 }
```
- Bottom Panel (Output):** Model 12 (run) - 0 errors, 0 warnings, 0 info, 0 severe.

Konstruktor	Keterangan
JLabel (String teks)	Label dengan teks
JLabel (String teks, int i)	Label dengan teks dan alignment (perataan). Terdapat tiga jenis alignment : LEFT, CENTER, dan RIGHT
JLabel (String teks, Icon ic, int i)	Label dengan teks, icon, dan alignment

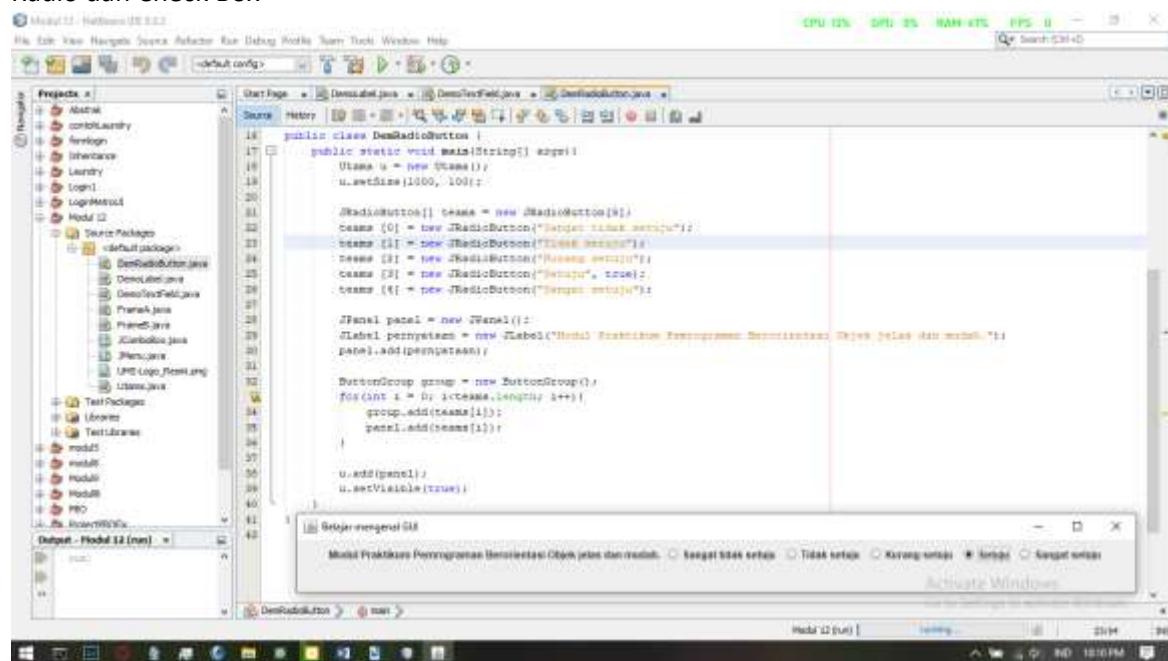
Text field and Password Field



Konstruktor	Penjelasan
JTextField()	Text field kosong tanpa tulisan
JTextField(int i)	Text field dengan panjang yang ditentukan
JTextField(String i)	Text field dengan teks yang sudah ditentukan
JTextField(String teks, int i)	Text field dengan teks dan Panjang kolom yang sudah ditentukan

Parameter dalam class JTextField	Penjelasan
String Text	Teksi dalam Text field
Boolean Editable	Menentukan bisa tidaknya teks dalam Text field untuk diedit
Int columns	Jumlah kolom pada Text field
Int horizontalAlignment	Perataan horizontal pada Text field

Radio dan Check Box



Konstruktor	Penjelasan
JCheckBox (String teks)	Check box dengan teks yang ditentukan
JCheckBox (String, Boolean)	Check box dengan teks yang ditentukan. jika kondisi pada parameter kedua true, maka Check box ini akan dipilih
JCheckBox (icon)	Check box dengan gambar icon
JCheckBox (icon, Boolean)	Check box dengan gambar icon dan terpilih jika true
JCheckBox (String, Icon)	Check box dengan tulisan dan gambar icon
JCheckBox (String, Icon, Boolean)	Check box dengan tulisan dan gambar icon, akan dipilih secara default jika kondisi true.

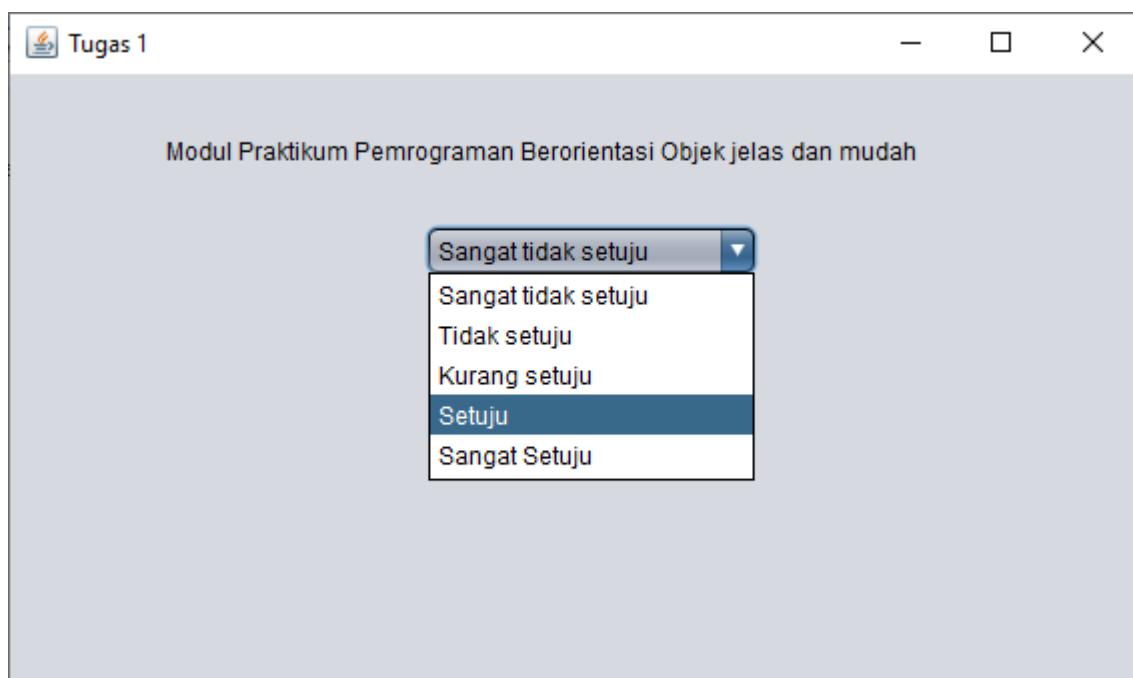
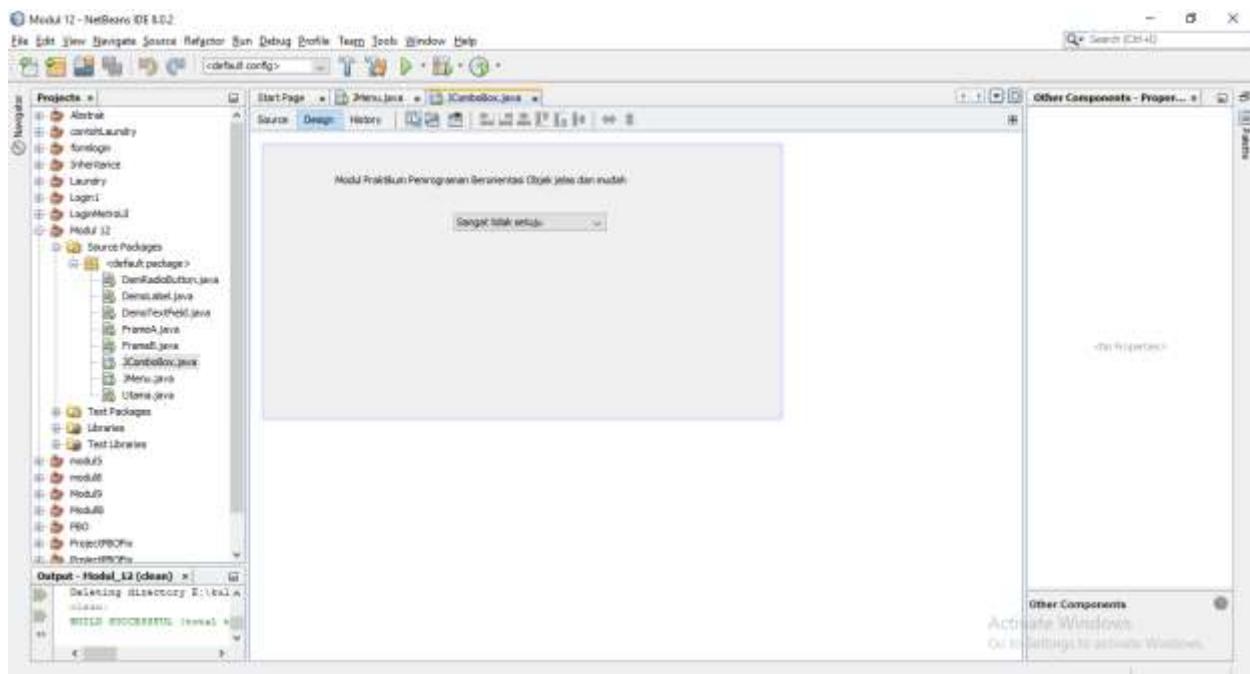
Tugas

Membuat program GUI berdasarkan output

1. Menggunakan class JComboBox untuk membuat program GUI berdasarkan gambar

A screenshot of the NetBeans IDE 8.0.2 interface. The title bar reads "Modul_12 - NetBeans IDE 8.0.2". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Tools, Window, Help. The toolbar has icons for New Project, Open, Save, Build, Run, Stop, and others. The Projects tab shows a tree view with packages like Abstract, ArrayList, Collections, Inheritance, Laundry, Login1, LoginModel, and Modul_12. Under Modul_12, there are Source Packages (Default package) containing classes like DefaultButton.java, Default.java, DefaultField.java, FrameA.java, FrameB.java, JComboBox.java, Menu.java, and Util.java; Test Packages, Libraries, and Test Libraries. The Output tab shows "Deleting directory E:\Java\Modul_12\bin" and "BUILD SUCCESSFUL: 1 Java file(s) processed". The main editor window displays Java code for a JComboBox in a JFrame. The code includes a constructor that initializes the frame and a method for handling action events on the JComboBox. A status bar at the bottom right says "Activate Windows".

A screenshot of the NetBeans IDE 8.0.2 interface. The title bar reads "Modul 12 - NetBeans IDE 8.0.2". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Tools, Window, Help. The toolbar has icons for New Project, Open, Save, Run, Stop, and others. The Projects tab shows a tree view with nodes like Abstract, ArrayList, forloop, Inheritance, Laundry, Login1, LoginModel, and Modul 12. Under Modul 12, there are Source Packages (Default package) containing files like DefaultFrame.java, DefaultList.java, DefaultTextField.java, Frame.java, JPanel.java, JPanelController.java, JMenuBar.java, JMenu.java, and User.java. There are also Test Packages, Libraries, and Test Libraries. The Output tab shows "Deleting directory E:\haval\A" and "BUILD SUCCESSFUL: haval < 1s". The main editor window displays Java code for a Swing application, specifically a JPopupMenu. The code includes imports for java.awt, java.awt.event, and javax.swing, and defines a class with methods like actionPerformed and main.



2. Membuat program GUI untuk menambah menu. Apabila salah satu menu dipilih maka akan mengubah warna background.

A screenshot of the NetBeans IDE interface. The title bar reads "Module 12 - NetBeans IDE 8.0.2". The menu bar includes File, Edit, View, Sources, Refactor, Run, Debug, Profile, Test, Tools, Window, Help. The toolbar has icons for New Project, Open, Save, Build, Run, Stop, and Exit. The left sidebar shows the "Projects" tree with modules Abstract, Inheritance, Login, LoginMail, and Module 12, which contains Source Packages (Default package) with files DefaultAction.java, Default.java, DefaultTextField.java, Frame.java, FormLayout.java, Menu.java, and User.java; and Test Packages, Libraries, and Test Libraries. The right pane displays the code editor for "StartPage.java" under the "default config>" tab. The code is as follows:private void jMenuItemActionPerformed(java.awt.event.ActionEvent evt) {
 // TODO add your handling code here:
 this.getContentPane().setBackground(Color.pink);
}

private void jMenuItemActionPerformed(java.awt.event.ActionEvent evt) {
 // TODO add your handling code here:
 this.getContentPane().setBackgroundColor(Color.yellow);
}

private void jMenuItemActionPerformed(java.awt.event.ActionEvent evt) {
 // TODO add your handling code here:
 this.getContentPane().setBackground(Color.green);
}

/**
 * Starts args the command line arguments
 */
public static void main(String args[]) {
 /* Set the Nimbus look and feel */
 Look and Feel setting code (optional)

 /* Create and display the form */
 java.awt.EventQueue.invokeLater(new Runnable() {
 public void run() {
 new StartPage().setVisible(true);
 }
 });
}The code editor has line numbers from 28 to 247. A scroll bar is visible on the right side of the code area. The status bar at the bottom says "Activate Windows Go to Settings to Activate Windows".

A screenshot of the NetBeans IDE interface. The title bar reads "Model 12 - NetBeans IDE 8.0.2". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Tools, Window, Help. The toolbar has icons for New Project, Open, Save, Run, Stop, and others. The left sidebar shows the "Projects" view with a tree structure: Abstract, constraints, forelogic, Inheritance, Laundry, Login1, LogInPanel, Model 12, Source Packages (containing Default package, DemandedButton.java, Demanded.java, DemandedPanel.java, Frame.java, Formatted.java, XContentBox.java, Menus.java, Utensils.java), Test Packages, Libraries, Test Libraries, nodus5, nodus6, nodus7, nodus8, nodus9, PBO, ProjectNODUS, and ProjectNODUS. The main editor area displays Java code for "XContentBox.java" under "Start Page". The code includes imports for java.awt, java.awt.event, javax.swing, and javax.swing.event. It defines a class "XContentBox" with a static main method that prints command-line arguments, creates a queue, and runs a task. The code also includes several private member variables for menus and a JPopupMenu. The status bar at the bottom says "Model 12 (run) 100% COMPLETE total 1". A watermark in the bottom right corner says "Activate Windows Go to settings to activate Windows".

