

PRAKTIKUM PEMROGAMAN BERORIENTASI OBJEK

MODUL 11 : NESTED CLASS



Disusun oleh:

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11.1 Inner Class (non-static nested class)

```
OuterDemo.java x OuterDemo2.java Outer.java NestedMain.java »3
1 package nestedClass;
2
3 public class OuterDemo {
4     int num;
5
6     //inner class
7     private class InnerDemo{
8         private void print() {
9             System.out.println("Ini merupakan method inner class");
10        }
11    }
12
13    //akses method inner class dari method outer class
14    void displayInner( ) {
15        InnerDemo inner = new InnerDemo();
16        inner.print();
17    }
18 }
```

```
OuterDemo.java Myclass.java x OuterDemo2.java Outer.java »3
1 package nestedClass;
2
3 public class Myclass {
4
5     public static void main(String[] args) {
6         //membuat object outer class
7         OuterDemo outer = new OuterDemo();
8
9         //mengakses method outer class
10        outer.displayInner();
11    }
12 }
```

```
Problems Javadoc Declaration Console x
<terminated> Myclass [Java Application] /usr/lib/jvm/java-11
Ini merupakan method inner class
```

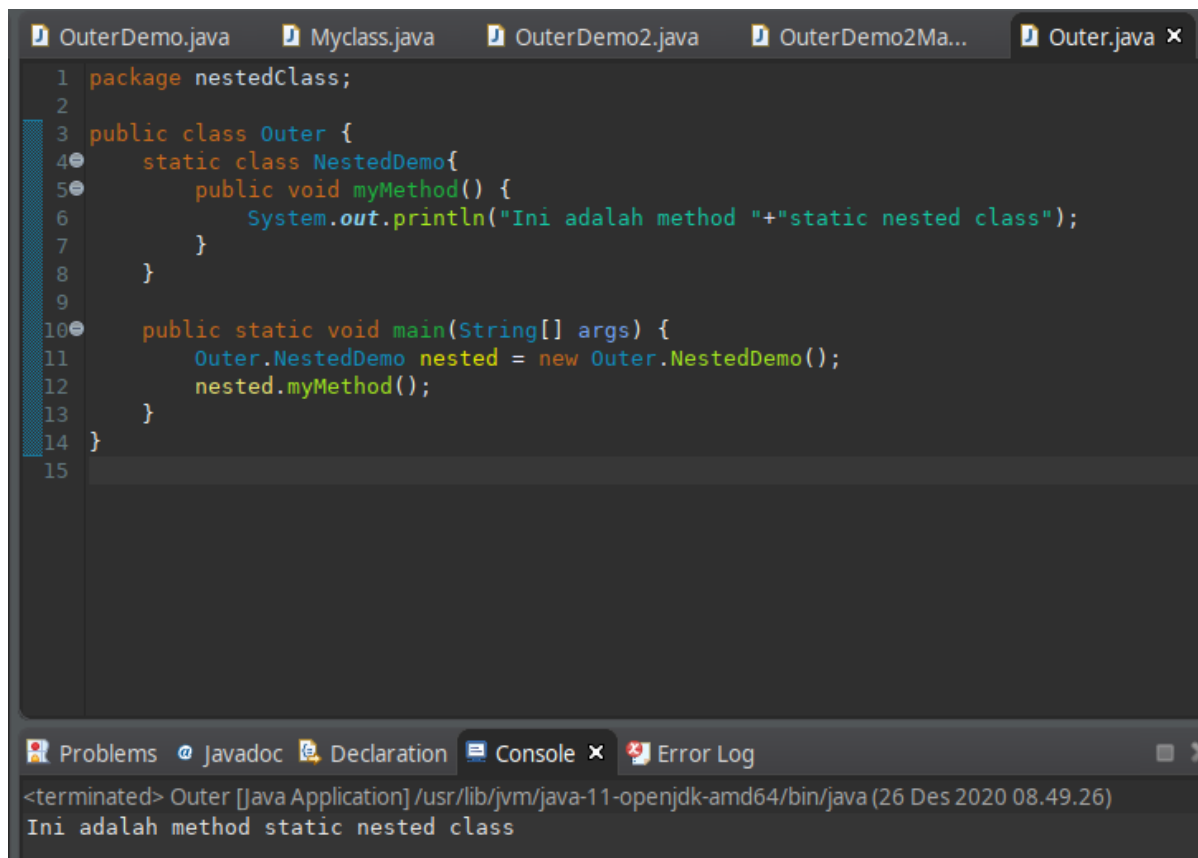
11.2 Mengakses Private Member

```
OuterDemo.java  Myclass.java  OuterDemo2.java x  Outer.java  NestedClass....
1 package nestedClass;
2
3 public class OuterDemo2 {
4     private int num = 175;
5     public class Inner_Demo{
6         public int getNum() {
7             System.out.println("Ini adalah nilai dari variable private outerDemo");
8             return num;
9         }
10    }
11 }
12
```

```
OuterDemo.java  Myclass.java  OuterDemo2.java  OuterDemo2Ma... x  Outer.java
1 package nestedClass;
2
3 public class OuterDemo2Main {
4
5     public static void main(String[] args) {
6         //membuat object OuterDemo
7         OuterDemo2 outer = new OuterDemo2();
8
9         //membuat object InnerDemo
10        OuterDemo2.Inner_Demo inner = outer.new Inner_Demo();
11        System.out.println(inner.getNum());
12    }
13 }
```

```
Problems  Javadoc  Declaration  Console x  Error Log
<terminated> OuterDemo2Main [Java Application] /usr/lib/jvm/java-11-op
Ini adalah nilai dari variable private outerDemo
175
```

11.3 Static Nested Class



```
1 package nestedClass;
2
3 public class Outer {
4     static class NestedDemo{
5         public void myMethod() {
6             System.out.println("Ini adalah method "+"static nested class");
7         }
8     }
9
10    public static void main(String[] args) {
11        Outer.NestedDemo nested = new Outer.NestedDemo();
12        nested.myMethod();
13    }
14 }
15
```

Problems Javadoc Declaration Console Error Log

<terminated> Outer [Java Application] /usr/lib/jvm/java-11-openjdk-amd64/bin/java (26 Des 2020 08.49.26)
Ini adalah method static nested class

11.4 Latihan.

Program berisi Nama, NIM, jurusan beserta method untuk mengaksesnya.

```
OuterDemo.java  Myclass.java  OuterDemo2Ma...  Outer.java  NestedClass.... x
1 package latihan;
2 class NestedClass {
3     String nama = "Afifah Ghaisani Imana";
4     String nim = "L200190198";
5
6     public void printNama() {
7         System.out.println("Nama      : "+nama+"\nNIM      : "+nim);
8     }
9
10    static class StaticNestedClass {
11        static String jurusan = "Informatika";
12        public void aksesNama() {
13            NestedClass nested = new NestedClass();
14            nested.printNama();
15        }
16    }
17
18    class InnerClass{
19        public void aksesJurusan() {
20            System.out.println("Jurusan : "+StaticNestedClass.jurusan);
21        }
22    }
23 }
```

Main Class untuk menjalankan program.

```
OuterDemo.java  Myclass.java  OuterDemo2Ma...  Outer.java  NestedClass....  NestedMain.java x
1 package latihan;
2
3 public class NestedMain {
4
5     public static void main(String[] args) {
6         NestedClass.StaticNestedClass stat = new NestedClass.StaticNestedClass();
7         stat.aksessNama();
8
9         NestedClass nested = new NestedClass();
10        NestedClass.InnerClass inner = nested.new InnerClass();
11        inner.aksessJurusan();
12
13    }
14
15 }
```

Output dari Program.

```
Problems  Javadoc  Declaration  Console x  Error Log
<terminated> NestedMain [Java Application] /usr/lib/jvm/java-11-openjdk
Nama      : Afifah Ghaisani Imana
NIM       : L200190198
Jurusan   : Informatika
```