PRAKTIKUM

PEMROGRAMAN BERORIENTASI OBJEK

MODUL 11 NESTED CLASS



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PROGRAM STUDI TEKNIK INFORMATIKA

FAKULTAS KOMUNIKASI DAN INFORMATIKA

UNIVERSITAS MUHAMMADIYAH SURAKARTA

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1. INNER CLASS (Non-Static Nested Class)

Program 1. Contoh inner class

Program 2. Pengaksesan properties pada inner class

```
# OuterDemojava X

src > # OuterDemojava > # OuterDemo

public class OuterDemo {

int num;

//inner class

private class InnerDemo {

private void print() {

System.out.println(x: "ini merupakan method inner class");

}

//akses method inner class dari method outer class

//akses method inner class dari method outer class

//akses method inner class dari method outer class

//akses method inner = new InnerDemo();

InnerDemo inner = new InnerDemo();

inner.print();

}
```

Program 3. Menjalankan (run) inner class melalui method main ()

Output Terminal

```
PROBLEMS OUTPUT TERMINAL CODEWHISPERER REFERENCE LOG DEBUG CONSOLE

PS C:\Users\Asus\.vscode\Praktikum_PBO_11> & 'C:\Program Files\Java\jdk-17.0.4.1\bin\java.exe' \.vscode\Praktikum_PBO_11\bin' 'Myclass' ini merupakan method inner class
PS C:\Users\Asus\.vscode\Praktikum_PBO_11>
```

2. MENGAKSES PRIVATE MEMBER

Program 4. Mengakses variable private

Program 5. Class dengan method main () untuk mengakses variable private

```
OuterDemoMain.java X

src >  OuterDemoMain.java >  OuterDemoMain

public class OuterDemoMain {
    Run | Debug
    public static void main (String[] args) {
        //Membuat object OuterDemo
        OuterDemo2 outer = new OuterDemo2();
        //Membuat object InnerDemo
        OuterDemo2.Inner_Demo inner = outer.new Inner_Demo();
        System.out.println(inner.getNum());
}
```

Output Terminal

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Asus\.vscode\Praktikum_PBO_11> & 'C:\Program Files\Java\jdk-17.0.4.1\bin\java.exe' p' 'C:\Users\Asus\.vscode\Praktikum_PBO_11\bin' 'OuterDemoMain' ini adalah nilai dari varible private outerDemo

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PS C:\Users\Asus\.vscode\Praktikum_PBO_11>
```

3. STATIC NESTED CLASS

```
MyOuter.java X

src > 
MyOuter.java > 
MyOuter

public class MyOuter {

    static class Nested_Demo {

    }

}
```

Program 6. Membuat instance dari static nested class

```
description of the content of t
```

Output Terminal

```
Windows PowerShell
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PS C:\Users\Asus\.vscode\Praktikum_PBO_11> & 'C:\Program Files\Java\jdk-17.0.4.1\bin\java.exe' p' 'C:\Users\Asus\.vscode\Praktikum_PBO_11\bin' 'Outer' ini adalah methodstatic nested class

PS C:\Users\Asus\.vscode\Praktikum_PBO_11>
```

4. LATIHAN

Program 7. Soal latihan nested class

```
NestedClass.java X
src > 🕹 NestedClass.java > ધ NestedClass
       class NestedClass {
           String nama = "Fariz Taufiqul Hafidz"; // lengkapi dengan nama saudara
           String nim = "L200210192"; // lengkapi dengan nim saudara
           public void printNama() {
               System.out.println (
                    "Nama : " + nama + "\n" +
"NIM : " + nim
           static class StaticNestedClass {
               static String jurusan = "Informatika";
               public void info() {
                   NestedClass nested = new NestedClass();
                        nested.printNama();
           class InnerClass {
               public void infoProdi() {
                   System.out.println ("Jurusan : " + StaticNestedClass.jurusan);
       K
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```

Class main ()

Output Terminal

PROBLEMS OUTPUT **TERMINAL** CODEWHISPERER REFERENCE LOG DEBUG CONSOLE

Windows PowerShell

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PS C:\Users\Asus\.vscode\Praktikum_PBO_11> & 'C:\Program Files\Java\jdk-17.0.4.1\bin\java.exe' p' 'C:\Users\Asus\.vscode\Praktikum_PBO_11\bin' 'NestedDemo'

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PS C:\Users\Asus\.vscode\Praktikum_PBO_11>