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## MODUL 6

### Single Inheritance

The screenshot shows the Apache NetBeans IDE interface. The top menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, and Help. The title bar says "Modul6 - Apache NetBeans IDE 11.1". The left sidebar has sections for Projects, Files, Services, and Navigator. The main workspace contains two code editors: one for "InheritanceTest.java" and another for "Programmer.java". The "InheritanceTest.java" editor shows a main method that creates a Programmer object and prints its salary. The "Programmer.java" editor shows the Programmer class extending Pegawai. The bottom status bar shows the output "schology (run) running 13.29 INS" and the system tray with icons for battery, signal, and date/time.

```
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 modul6;
6  */
7 /**
8  * @author Aezo27
9  */
10 public class Programmer extends Pegawai {
11     public static void main(String[] args) {
12         // TODO code application logic here
13         double lemburPerjam = 50000;
14         double gajiPerBulan;
15         Pegawai pegawai = new Pegawai();
16         gajiPerBulan = pegawai.gajiPokok + lemburPerjam;
17         System.out.println(gajiPerBulan);
18     }
19 }
20 
```

```
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 modul6;
6  */
7 /**
8  * @author Aezo27
9  */
10 public class Pegawai {
11     /**
12      * @param args the command line arguments
13     */
14     public void main(String[] args) {
15         double gajiPokok = 1000000;
16     }
17 }
18 
```

### Hierarchical Inheritance

The screenshot shows the Apache NetBeans IDE interface. The top menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, and Help. The title bar says "Modul6 - Apache NetBeans IDE 11.1". The left sidebar has sections for Projects, Files, Services, and Navigator. The main workspace contains two code editors: one for "InheritanceTest.java" and another for "Teknisi.java". The "InheritanceTest.java" editor shows a main method that creates a Teknisi object and prints its salary. The "Teknisi.java" editor shows the Teknisi class extending Pegawai. The bottom status bar shows the output "schology (run) running... 9:18 INS" and the system tray with icons for battery, signal, and date/time.

```
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 modul6;
6  */
7 /**
8  * @author Aezo27
9  */
10 public class Teknisi extends Pegawai {
11     public static void main(String[] args) {
12         // TODO code application logic here
13         double lemburPerjam = 40000;
14         double gajiPerBulan;
15         Pegawai pegawai = new Pegawai();
16         gajiPerBulan = pegawai.gajiPokok + lemburPerjam;
17         System.out.println(gajiPerBulan);
18     }
19 }
20 
```

```
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 modul6;
6  */
7 /**
8  * @author Aezo27
9  */
10 public class Pegawai {
11     /**
12      * @param args the command line arguments
13     */
14     public void main(String[] args) {
15         double gajiPokok = 1000000;
16     }
17 }
18 
```

## Multilevel Inheritance

The screenshot shows the Apache NetBeans IDE interface with four code editors open:

- Modul6.java**: Contains classes A, B, and C, each printing "Info dari Class A", "Info dari Class B", and "Info dari Class C" respectively.
- B.java**: Contains class B extending class A.
- C.java**: Contains class C extending class B.
- InheritanceTest.java**: A test class with static void main() that creates instances of A, B, and C and calls their respective message methods.

The Output panel shows the build log:

```
run:
Info dari Class A
Info dari Class B
Info dari Class A
Info dari Class C
Info dari Class B
Info dari Class A
BUILD SUCCESSFUL (total time: 0 seconds)
```

The status bar at the bottom right shows the date and time: 14/11/2019 15:44.

## Latihan

The screenshot shows the Apache NetBeans IDE interface with four code editors open:

- Tugas.java**: Contains class Kendaraan with static String variables tahunRakit, bahanBakar, and asalNegara.
- Pesawat.java**: Contains class Pesawat extending Kendaraan with static String variables bahanBakar and warna.
- Mobil.java**: Contains class Mobil extending Kendaraan with static String variables bahanBakar and warna.
- Demo.java**: A test class with static void main() that creates instances of Mobil and Pesawat, prints their details, and then prints the details of Kendaraan.

The status bar at the bottom right shows the date and time: 14/11/2019 15:47.

## Hasil Output:

The screenshot shows the Apache NetBeans IDE 11.1 interface. In the top-left corner, the title bar reads "Modul6 - Apache NetBeans IDE 11.1". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, and Help. The toolbar contains various icons for file operations like Open, Save, and Print.

The left sidebar features a Projects view, a Files view, and a Services view. The main workspace displays two files: "Tugas.java" and "Demo.java". The "Demo.java" file contains the following code:

```
5  */
6  package latihan;
7  /*
8   * 
9   * @author Aezo27
10  */
11 public class Demo {
12     public static void main(String[] args) {
13         Mobil aa = new Mobil();
14         System.out.println("Negara : " + aa.osalNegara);
15         System.out.println("Bahan Bakar : " + aa.bahanBakar);
16         System.out.println("Tahun Rakit : " + aa.tahunRakit);
    }
```

The Output window shows the results of running the "Demo" class:

```
run:
Negara : Indonesia
Bahan Bakar : Bensol
Tahun Rakit : 1999
Warna : Biru
=====
Negara : Indonesia
Bahan Bakar : Bensol
Tahun Rakit : 1999
Warna : Putih
=====
Warna Asli : Hitam
BUILD SUCCESSFUL (total time: 0 seconds)
```

The status bar at the bottom right indicates the system is running, the date is 14/11/2019, and the time is 15:48. The taskbar at the bottom shows icons for various applications, including Microsoft Word, Microsoft Excel, and Adobe Photoshop.