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## PERCOBAAN 1

Visual Studio Code interface showing a Java project named "Percobaan1". The Explorer sidebar shows the project structure, including files like "NilaiX.java" and "Parent.java". The main editor displays the code for "Parent.java" and "Child.java".

```
1 public class Parent {
2     public int x = 5;
3 }
4
5 class Child extends Parent{
6     public int x = 10;
7     public void info(int x){
8         System.out.println("Nilai x sebagai parameter = " + x);
9         System.out.println("Data member x di class Child = " + this.x);
10        System.out.println("Data member x di class Parent = " + super.x);
11    }
12 }
```

The terminal output shows the execution of the program:

```
PS I:\Reape107\Coding> & 'C:\Program Files\Eclipse Adoptium\jdk-17.0.3.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\KURO KI-EIYU\AppData\Roaming\Code\User\workspaceStorage\40d87a0c3696c7ab05e49312dc9665b3\redhat.java\jdt_ws\Coding_7a546bcb\bin' 'NilaiX'
Nilai x sebagai parameter = 20
Data member x di class Child = 10
Data member x di class Parent = 5
PS I:\Reape107\Coding>
```

## PERCOBAAN 2

File Edit Selection View Go Run Terminal Help Pegawai.java - Coding - Visual Studio Code

EXPLORER

Java > PBO > Percobaan2 > Pegawai.java

```
1 public class Pegawai {
2     private String nama;
3     public double gaji;
4 }
5
6 public class Manajer extends Pegawai{
7     public String departemen;
8
9     public void IsiData(String n, String d){
10         nama=n;
11         departemen=d;
12     }
13 }
14
```

PROBLEMS 3

⊗ The field Pegawai.nama is not visible Java(33554503) [10, 9]

⚠ Pegawai.java is not on the classpath of project Coding\_7a546bcb, only syntax errors are reported Java(32) [1, 1]

⚠ The value of the field Pegawai.nama is not used Java(570425421) [2, 20]

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF {} Java

Error terjadi karena class pegawai dan fungsi IsiData di class Manajer.

Solusi : Mengubah atribut nama pada class Pegawai dan menghapus pernyataan public pada class pegawai

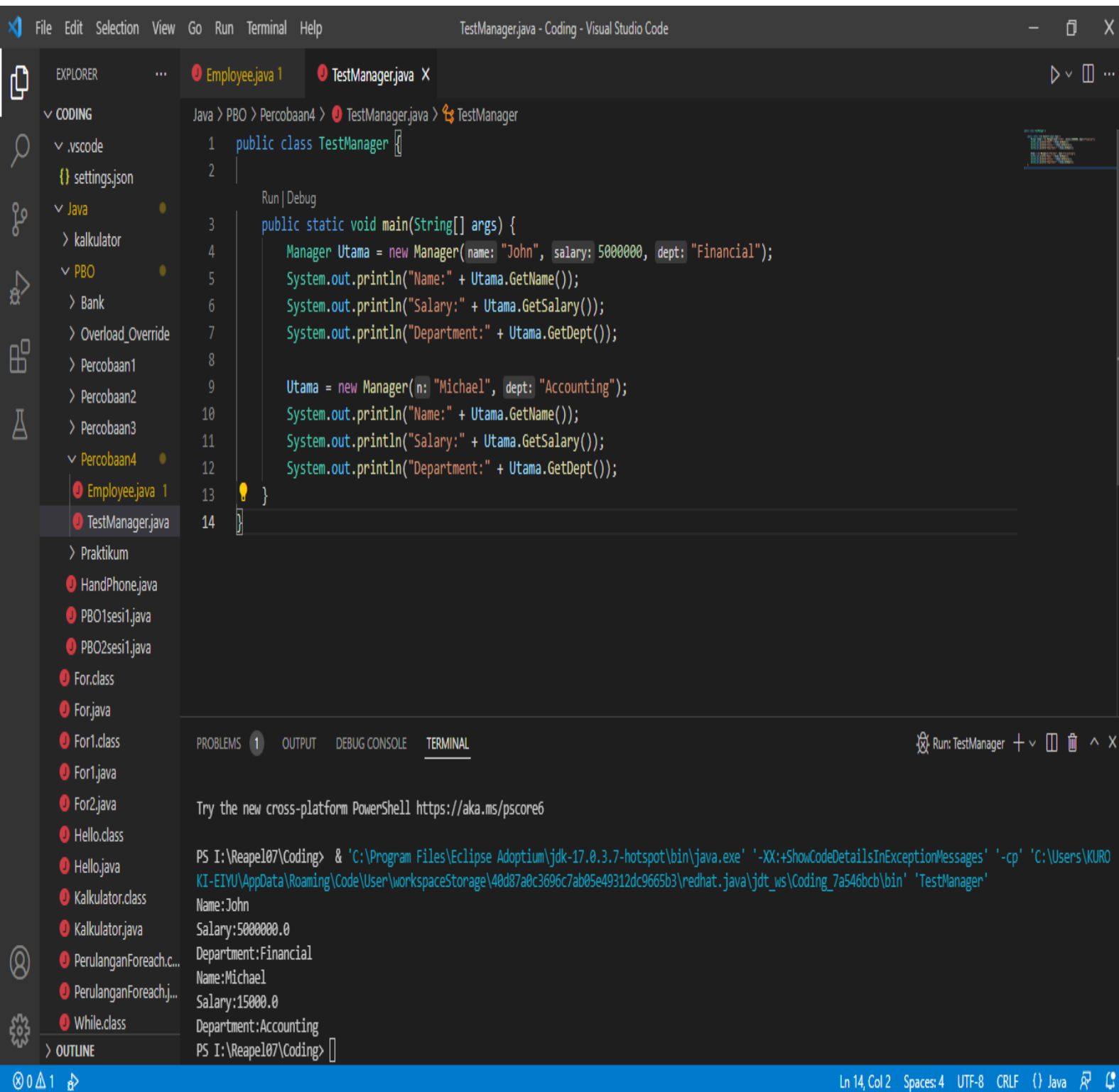
### PERCOBAAN 3

The screenshot shows the Visual Studio Code interface with a Java project. The Explorer sidebar on the left displays the project structure, including folders like .vscode, Java, kalkulator, PBO, Bank, Overload\_Override, Hewan, Notif, Rumus, and files like Cetak.java, Percobaan1, Percobaan2, Percobaan3, Praktikum, HandPhone.java, PBO1sesi1.java, PBO2sesi1.java, For.class, For.java, For1.class, For1.java, For2.java, Hello.class, Hello.java, Kalkulator.class, Kalkulator.java, PerulanganForeach.c..., and PerulanganForeach.j... The main editor shows the file Parent.java with the following code:

```
1 public class Parent {  
2     //kosong  
3 }  
4  
5 public class Child extends Parent{  
6     int x;  
7     public Child(){  
8         x = 5;  
9     }  
10 }
```

The Problems panel at the bottom shows a warning for Parent.java: "Parent.java is not on the classpath of project Coding\_7a546bcb, only syntax errors are reported Java(32) [1, 1]". The status bar at the bottom indicates the current position is Ln 10, Col 2, with 4 spaces, UTF-8 encoding, and CRLF line endings.

## PERCOBAAN 4



File Edit Selection View Go Run Terminal Help TestManager.java - Coding - Visual Studio Code

EXPLORER

- Employee.java 1
- TestManager.java X

Run | Debug

```
1 public class TestManager {
2
3     public static void main(String[] args) {
4         Manager Utama = new Manager(name: "John", salary: 5000000, dept: "Financial");
5         System.out.println("Name:" + Utama.GetName());
6         System.out.println("Salary:" + Utama.GetSalary());
7         System.out.println("Department:" + Utama.GetDept());
8
9         Utama = new Manager(n: "Michael", dept: "Accounting");
10        System.out.println("Name:" + Utama.GetName());
11        System.out.println("Salary:" + Utama.GetSalary());
12        System.out.println("Department:" + Utama.GetDept());
13    }
14 }
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL

Run: TestManager

Try the new cross-platform PowerShell <https://aka.ms/pscore6>

```
PS I:\Reapel07\Coding> & 'C:\Program Files\Eclipse Adoptium\jdk-17.0.3.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\KURO KI-EIYU\AppData\Roaming\Code\User\workspaceStorage\40d87a0c3696c7ab05e49312dc9665b3\redhat.java\jdt_ws\Coding_7a546bcb\bin' 'TestManager'
Name:John
Salary:5000000.0
Department:Financial
Name:Michael
Salary:15000.0
Department:Accounting
PS I:\Reapel07\Coding>
```

Ln 14, Col 2 Spaces: 4 UTF-8 CRLF {} Java

## PERCOBAAN 5

The screenshot shows the Visual Studio Code interface with a Java project. The Explorer sidebar on the left shows the project structure, including a folder named 'Percobaan5' which contains 'MoodyObject.java' and 'MoodyTest.java'. The main editor displays the code for 'MoodyTest.java'.

```
1 public class MoodyTest {  
    Run | Debug  
2     public static void main(String[] args) {  
3         MoodyObject m = new MoodyObject();  
4         // test parent class  
5         m.speak();  
6         // test inheritance class  
7         m = new HappyObject();  
8         m.speak();  
9         m.laugh();  
10  
11        // test inheritance class  
12        m = new SadObject();  
13        m.speak();  
14        m.cry();  
15    }  
16 }
```

The bottom panel shows the 'TERMINAL' output, which displays the execution of the program. The output shows the following messages:

```
Copyright (C) Microsoft Corporation. All rights reserved.  
  
Try the new cross-platform PowerShell https://aka.ms/pscore6  
  
PS I:\Reape107\Coding> & 'C:\Program Files\Eclipse Adoptium\jdk-17.0.3.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\KURO  
KI-EIYU\AppData\Roaming\Code\User\workspaceStorage\40d87a0c3696c7ab05e49312dc9665b3\redhat.java\jdt_ws\Coding_7a546bcb\bin' 'MoodyTest'  
I am moody  
I am happy  
Hahaha  
I am sad  
Hoo hoo  
PS I:\Reape107\Coding>
```

The status bar at the bottom indicates the current file is 'Ln 16, Col 2', the encoding is 'UTF-8', the line ending is 'CRLF', and the language is 'Java'.

## PERCOBAAN 6

The screenshot shows the Visual Studio Code interface with the following components:

- Explorer Panel:** Displays the project structure under 'CODING'. The 'Percobaan6' folder is expanded, showing files like 'A.java' and 'B.java'. The 'A.java' file is selected.
- Editor Panel:** Shows the code for 'A.java'. The code defines a class 'A' with four String variables (var\_a, var\_b, var\_c, var\_d) and a constructor 'A()' that prints 'Konstruktor A dijalankan'.
- Terminal Panel:** Shows the output of running the program. The output includes the constructor message and the values of the variables: 'Variabel A', 'Variabel B', 'Variabel C', and 'Variabel D'.

```
1 class A {  
2     String var_a = "Variabel A";  
3     String var_b = "Variabel B";  
4     String var_c = "Variabel C";  
5     String var_d = "Variabel D";  
6     A(){  
7         System.out.println(x: "Konstruktor A dijalankan");  
8     }  
9 }  
10
```

Windows PowerShell  
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS I:\Reapel07\Coding> & 'C:\Program Files\Eclipse Adoptium\jdk-17.0.3.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\KURO0\KI-EIYU\AppData\Roaming\Code\User\workspaceStorage\40d87a0c3696c7ab05e49312dc9665b3\redhat.java\jdt\_ws\Coding\_7a546bcb\bin' 'B'

Objek A dibuat  
Konstruktor A dijalankan  
menampilkan nama variabel objek aa  
Variabel A  
Variabel B  
Variabel C  
Variabel D

Objek B dibuat  
Konstruktor A dijalankan  
Konstruktor B dijalankan  
menampilkan nama variabel objek bb  
Var\_a dari class B  
Var\_b dari class B  
Variabel C  
Variabel D  
PS I:\Reapel07\Coding>

## PERCOBAAN 7

File Edit Selection View Go Run Terminal Help inheritExample.java - Coding - Visual Studio Code

EXPLORER

- coding
- .vscode
- settings.json
- Java
  - kalkulator
  - PBO
    - Bank
    - Overload\_Override
    - Percobaan1
    - Percobaan2
    - Percobaan3
    - Percobaan4
    - Percobaan5
    - Percobaan6
    - Percobaan7
      - Bapak.java
      - inheritExample.java
  - Praktikum
  - HandPhone.java
  - PBO1sesi1.java
  - PBO2sesi1.java
  - For.class
  - For.java
  - For1.class
  - For1.java
  - For2.java
  - Hello.class
  - Hello.java
  - Kalkulator.class
  - Kalkulator.java
- OUTLINE

Java > PBO > Percobaan7 > inheritExample.java > inheritExample

```
1 public class inheritExample {  
    Run | Debug  
2     public static void main(String[] args) {  
3         Bapak objectBapak=new Bapak();  
4         Anak objectAnak=new Anak();  
5  
6         objectBapak.a=1;  
7         objectBapak.b=1;  
8         System.out.println(x: "Object Bapak (Superclass) :");  
9  
10        objectBapak.show_variabel();  
11        objectAnak.c=5;  
12        System.out.println(x: "Object Anak (Subclass dari Bapak)");  
13        objectAnak.show_variabel();  
14    }  
15 }
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL

Run: inheritExample

```
PS I:\Reapel07\Coding> & 'C:\Program Files\Eclipse Adoptium\jdk-17.0.3.7-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\KURO  
KI-EIYU\AppData\Roaming\Code\User\workspaceStorage\40d87a0c3696c7ab05e49312dc9665b3\redhat.java\jdt_ws\Coding_7a546bcb\bin' 'inheritExample'  
Object Bapak (Superclass) :  
Nilai a=1  
Nilai b=1  
Object Anak (Subclass dari Bapak)  
Nilai a=0  
Nilai b=0  
Nilai c=5  
PS I:\Reapel07\Coding>
```

Ln 15, Col 2 Spaces: 4 UTF-8 CRLF {} Java

## PERCOBAAN 8

Visual Studio Code interface showing a Java project named "Parent.java - Coding". The Explorer sidebar on the left displays the project structure, including folders like ".vscode", "Java", "PBO", and "Percobaan8". The main editor area shows the code for "Parent.java" and "Baby.java".

```
1 public class Parent {
2     String parentName;
3     Parent(){}
4
5     Parent(String parentName){
6         this.parentName = parentName;
7         System.out.println(x: "Konstruktor parent");
8     }
9 }
10
11 class Baby extends Parent {
12     String babyName;
13
14     Baby(String babyName) {
15         super();
16         this.babyName = babyName;
17         System.out.println(x: "Konstruktor Baby");
18         System.out.println(babyName);
19     }
20
21     public void cry() {
22         System.out.println(x: "Owek owek");
23     }
24 }
25
```

The Problems panel at the bottom shows a warning: "Parent.java is not on the classpath of project Coding\_7a546bcb, only syntax errors are reported Java(32) [1, 1]".