## Agnestia Agustine Djoenaidi GO | A11.2022.13996

link github ( https://github.com/Agnestia/ResponsiHarkespan/tree/master/src/inheritance )

### **CATAT OUTPUT**

### 1. SOAL

### Contoh 1: Inheritance

Catat output dari program di atas!

```
eclipse-workspace - responsi/src/inheritance/InheritMain.java - Eclipse IDE
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                                                                                                                                                   D Mainjava D Personjava D Studentjava D InheritMainjava × 1 package inheritance;
  Package Explorer ×

    Belajar
    LatihanMahasiswa
    → PBO [PBO master]
                                                                                                                                                                                                                                                                                                                    3 public class InheritMain [
                                                                                                                                                                                                                                                                                                                                          public static void main(String[] args) {
   Student mahasiswa = new Student();
   mahasiswa.identity();
   String nim = mahasiswa.getNim();
   System.out.println(nim);
    v 👺 responsi
             ⇒ M JRE System Library [JavaSE-11]
         > 1 InheritMain.java

    InheritMain.java
    Mahasiswa,java
    MahasiswaAktif.java
    MahasiswaBaru.java
    MahasiswaMbkm.java
    Main.java

                                PassFailActivity.java
                                > PassFailExam.java

    Person,java
    Student,java
    Module-info.java

      ⇒ 😂 tugas1
  Problems @ Javadoc Declaration Console X & Git Staging
a: notinens = Javanou, sp. declaration = Console A = Gell saging 
cterminated. InheritMain [Java Application] C\Users\agnes\p2\poo\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32x86_64_17.0.10v20240120-1143\yie\bin\javaw.exe 
Nama: null 
Alamat: null
 null
```

# OUTPUTNYA =

Nama: null
Alamat: null

null

### 2. SOAL

Contoh 2 Overriding

Catat output dari program di atas!

### Jawab

```
□ Package Explorer × □ □ Mainjava □ Personjava □ Studentjava × □ InheritMainjava □ Package inheritance;
                                                                                                            - -
> 🐸 Belaiar
                                        3 public class Student extends Person {
> 🔂 LatiĥanMahasiswa
                                              private String nim;
> 🙀 > PBO [PBO master]
public String getNim() {
                                             return nim;
  > ■ JRE System Library [JavaSE-11]
  ∨ Æ src
                                     100 public void setNim(String nim) {
11     this.nim = nim;
12  }
    v 🔠 inheritance
       > 🗓 FinalExam.java
       > 

    GradedActivity.java
       > 🗓 InheritMain.java
                                               @override
                                               public void identity() {
    System.out.println("NIM: " + getNim());
        Mahasiswa.java MahasiswaAktif.java
       > 🗓 MahasiswaBaru.java
       > 🗓 MahasiswaMbkm.java
       > 🕖 Main.java
       > PassFailActivity.java
       > PassFailExam.iava
       > Person.java
        > 🛭 Student.java
     > 🗓 module-info.java
> 📂 tugas1
                                                                    🔐 Problems @ Javadoc 🚇 Declaration 📮 Console 🗵 📥 Git Staging
cterminated > InheritMain [Java Application] C\Users\agnes\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.10.vIM: A11.2000.00001
```

## Output nya:

NIM: A11.2000.00001

```
class Person {
    // atribut dan method super class
    protected String name;
    protected String address;
    public void identity()
    {
        System.out.println("Nama: "+name);
        System.out.println("Alamat: "+address);
    }
}

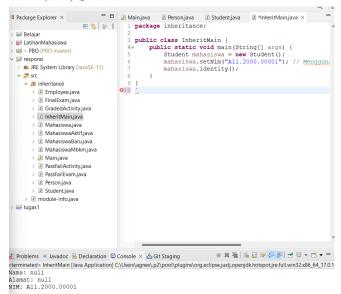
// inherit dari Person
    public class Student extends Ferson{
        String nim;

// method baru di subclass
    public String getNim() {
            return nim;
    }

    @override
    public void identity() {
            super.identity();
            System.out.println("NIM: "+getNim());
    }
}

class InheritMain {
    public static void main(String[] args) {
            Student mahasiswa = new Student();
            //pemanggilan method dari superclass
            //pemanggilan method dari subclass
            mahasiswa.nim = "All.2000.00001';
            mahasiswa.identity();
        }
}
```

1. Catat output dari program di atas!



## output nya:

Nama: null
Alamat: null

NIM: A11.2000.00001

Perhatikan blok berikut ini di class Student:

```
@Override
   public void identity()
   {
       super.identity();
       System.out.println("NIM: "+getNim());
   }
```

Apa yang terjadi jika super.identity(); dipindah setelah System.out.println("NIM: "+getNim()); ? Catat hasilnya!

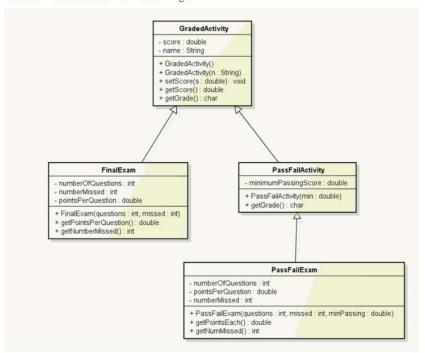
```
□ ☑ Mainjava ☑ Personjava ☑ Studentjava × ☑ InheritMainjava
                                                                                           - -
 > 🔂 LatihanMahasiswa
  > PBO [PBO master]
                                public class Student extends Person {
   String nim;
   public void setNim(String nim) {
 → JRE System Library [JavaSE-11]
                                9 this.nim = nim;
10 }
11
120 public String getNim() {
13 return nim;
14 }
15
60 eOverride
17 public void identity() {
18 System out printle()}
                                      }
      > II Employee,iava
       > 🗓 FinalExam.java
      > 🗓 InheritMain.java
      > 🗓 MahasiswaAktif.java
                                       System.out.println("NIM: "+getNim());
super.identity();
}
      > 🗓 MahasiswaBaru.java
       > 🗓 MahasiswaMbkm.java
      > 🌆 Main.iava
       > PassFailActivity.java
      > PassFailExam.java
       > Person.java
       >  Student.iava
     > 🗓 module-info.java
 > 📂 tugas1
🔐 Problems @ Javadoc 😣 Declaration 😑 Console × 🚵 Git Staging
                                                           NIM: null
Nama: null
Alamat: null
```

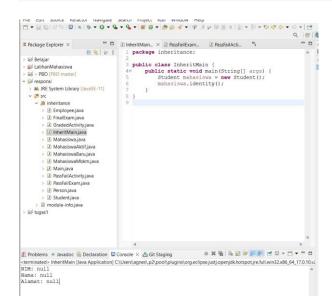
Yang terjadi Ketika memindahkan super.identity() setelah System.out.prinrln("NIM: "+getNim()); maka outputnya akan terbalik. Artinya, pertama kali NIM akan dicetak, dan kemudian baru identitas dari superclass('Person). Jadi outputnya

NIM: null
Nama: null
Alamat: null

## 4. SOAL

Contoh 4: Membuat Class berdasarkan Class Diagram





# **OUTPUT**

NIM: null
Nama: null
Alamat: null

### **LATIHAN MANDIRI**

## Link github

https://github.com/Agnestia/ResponsiHarkespan/tree/master/src/inheritance

```
© recipros-workspace - responsive/inheritance/Studentajas - Ecipro IDE

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If Photograp Explorer X

If Invalvas Inv
```

# Output:

```
Masukkan nama:
agnes
Masukkan alamat:
jl salak raya 21
Masukkan hobi:
berenang
Masukkan nim:
A11.2022.13996
Nama: agnes
Alamat: jl salak raya 21
Hobi: berenang
Masukkan biaya SPP:
750000
Masukkan biaya SKS:
500000
Masukkan biaya Modul:
350000
Total tagihan: 1600000
```