LAPORAN TEORI PEMOGRAMAN BERBASIS OBJECT

[Inheritance 2]

Diajukan Untuk Memenuhi Tugas Mata Kuliah Pemograman Berbasis Object
Semester Ganjil Tahun Akademik 2021/2022



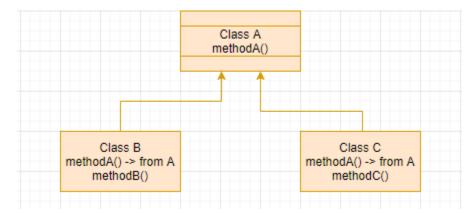
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D4 TEKNIK INFORMATIKA
TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MALANG
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Carilah sebuah studi kasus dari hierarchical dan hybrid inheritance, kemudian gambarkan UML class diagramnya.

✓ Hierarchical Inheritance



Kode program

```
package teori7;

/**

/**

* @author SMK TELKOM

*/

public class ClassA {
    public void methodA()

{
    System.out.println("Super class method");
    }
}
```

```
package teori7;

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/**

    * @author SMK TELKOM
    */

public class ClassB extends ClassA{
    public void methodB()

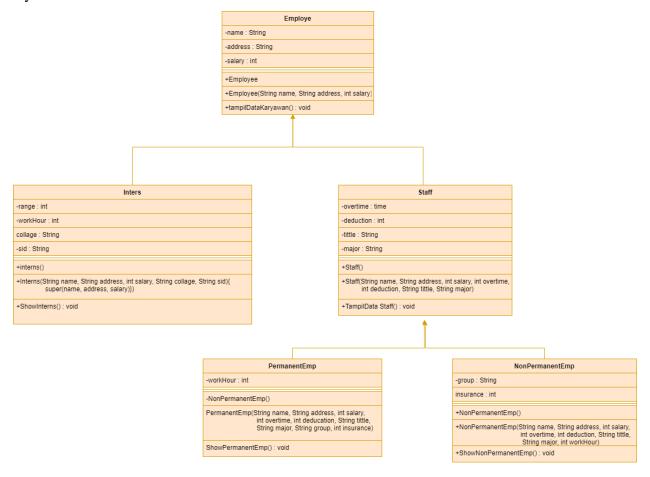
{
        System.out.println("Sub class Method B");
    }
}
```

```
L */
 package teori7;
- /**
* @author SMK TELKOM */
 public class ClassC extends ClassB{
   public void methodC() {
      System.out.println("Sub class Method C");
巨
     public static void main(String args[]) {
        ClassA obj1 = new ClassA();
        ClassB obj2 = new ClassB();
         ClassC obj3 = new ClassC();
         obj1.methodA(); //calling super class method
         obj2.methodA(); //calling A method from subclass object
         obj3.methodA(); //calling A method from subclass object
  }
```

• Hasilnya

```
run:
Super class method
Super class method
Super class method
BUILD SUCCESSFUL (total time: 0 seconds)
```

✓ Hybrid Inheritance



Kode program

Class Employe

```
package Teori7tg2;
- /**
   * @author SMK TELKOM
  public class Employee {
      public String name, address;
      public int salary;
틴
      public Employee(){
口
      public Employee(String name, String address, int salary){
          this.name = name;
          this.address = address;
          this.salary = salary;
早
      public void tampilDataKaryawan() {
        System.out.println("Name : "+name);
          System.out.println("Address: "+name);
          System.out.println("Salary : "+name);
```

Class Staff

```
package Teori7tg2;
₽ /**
   * @author SMK TELKOM
   public class Staff extends Employee{
       public int overtime, deduction;
String tittle, major;
F
       public Staff() {
早
       public Staff(String name, String address, int salary, int overtime, int deduction, String tittle, String major) {
             super(name, address, salary);
             this.overtime = overtime;
this.deduction = deduction;
             this.tittle = tittle;
this.major = major;
       public void TampilDataStaff() {
早
             super.tampilDataKaryawan();
             System.out.println("Major
System.out.println("Tittle
                                                     : "+major);
             System.out.println("Tittle : "+tittle);
System.out.println("Overtime : "+overtime);
System.out.println("Deduction : "+deduction);
             System.out.println("Total Slary: "+(salary+overtime-deduction));
```

Class PermanentEmp

Class NonPermanentEmp

Class Interns

```
package Teori7tg2;
∃ /**
  * @author SMK TELKOM
 public class Interns extends Employee{
    public int range = 3000000, workHour = 100;
    public String collage, sid;
    public Interns() {
₽
     public Interns (String name, String address, int salary, String collage, String sid) {
        super(name, address, salary);
         this.collage = collage;
        this.sid = sid;
     public void ShowInterns() {
         System.out.println("Collage's Name : "+collage);
         System.out.println("Sid
                                           : "+sid);
         super.tampilDataKaryawan();
                                           : "+(super.salary - range));
         System.out.println("Interns Salary
         System.out.println("Total Work Hour : "+workHour);
                                            : "+(super.salary - range) *workHour);
         System.out.println("Total Gaji
```

Class Main Hybrid

```
package Teori7tg2;
₽ /**
 * @author SMK TELKOM
 public class Hybrid {
   public static void main(String[] args){
      i.ShowInterns();
      System.out.println("");
      NonPermanentEmp nEmp = new NonPermanentEmp ("Nidzom", "Jl.Kapi Minda 20", 6000000, 500000, 150000,
      nEmp.ShowNonPermanentEmp();
      System.out.println("");
      PermanentEmp pEmp = new PermanentEmp ("Yoesharnilillah", "Jl.Kapi Sraba 13",7000000,200000,7000000,
      pEmp.ShowPermanentEmp();
      System.out.println("");
```

Hasilnya

