SE0701_2311104003_MARTRYATUS SOFIA

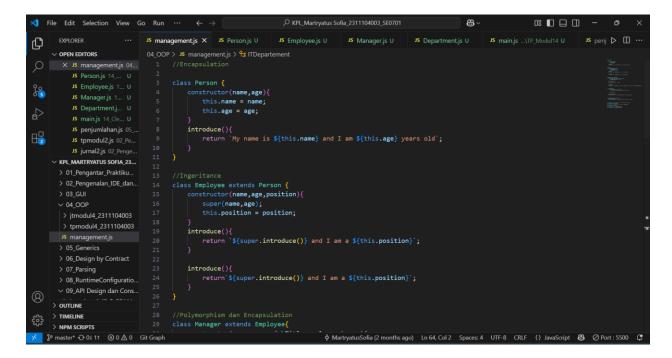
TP MODUL 14

Link Github:

https://github.com/MartryatusSofia/KPL_Martryatus-Sofia_2311104003_SE0701/tree/master/14_Clean_Code/TP_Modul14

Penjelasan Code:

Modul 2 – Code yang belum rapih



```
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                          🚥 JS managementjs X JS Personjs U JS Employeejs U JS Managerjs U JS Departmentjs U JS mainjs ...\TP_Modul14 U JS penj ▷ 🗓 🚥
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       EXPLORER

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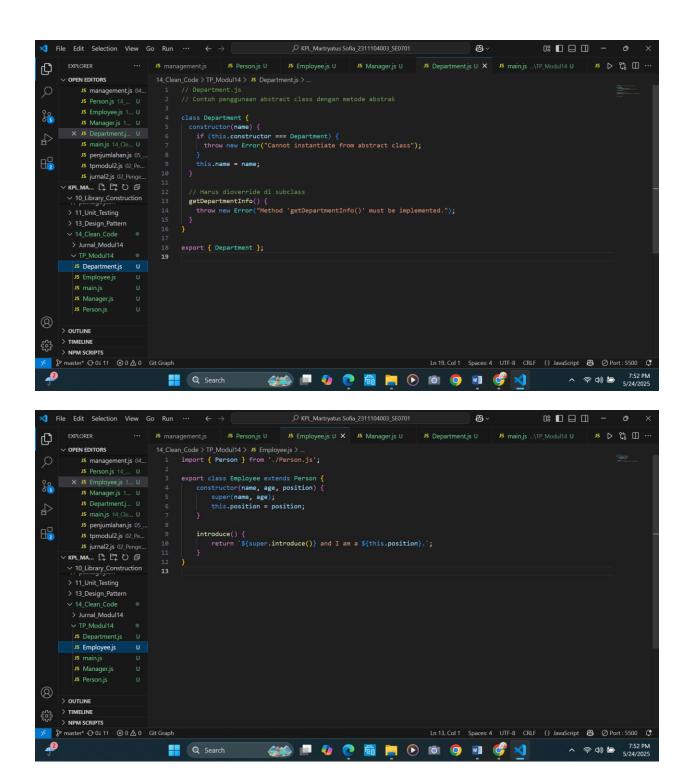
X JS managementjs 04... 27
28 //Polymorphism dan Encapsulation
JS Personjs 14... U 29 class Manager extends Employee{
                                          constructor(name, age, jobTitle, salary, bonus){
    super(name, age, jobTitle, salary);
    this.bonus = bonus;
}
           JS Person.js 14_... U
JS Employee.js 1... U
B
                                             getTotalSalary(){
                                            return this.salary + this.bonus;
}
        > 01_Pengantar_Praktiku... 39
> 02_Pengenalan_IDE_dan... 40
                                              introduce() {
    return `${super.introduce()} I am a ${this.jobTitle}. My total salary is ${this.getTotalSalary()}.`;
}
        > jtmodul4_2311104003
        constructor(name) {
    if(this.constructor === Departement) {
        JS management.js 46
        > 05 Generics
        > 06_Design by Contract
        > 08_RuntimeConfiguratio...

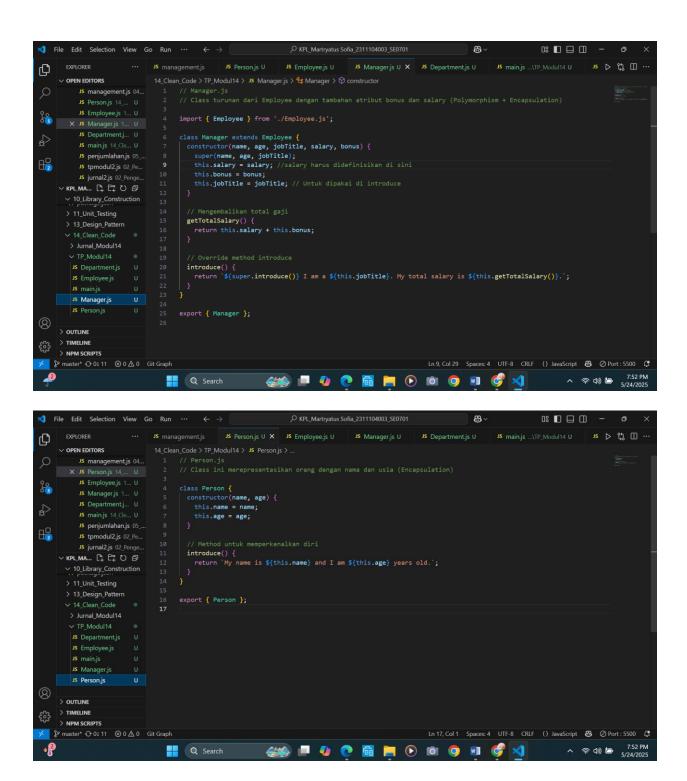
∨ 09_API Design dan Cons...

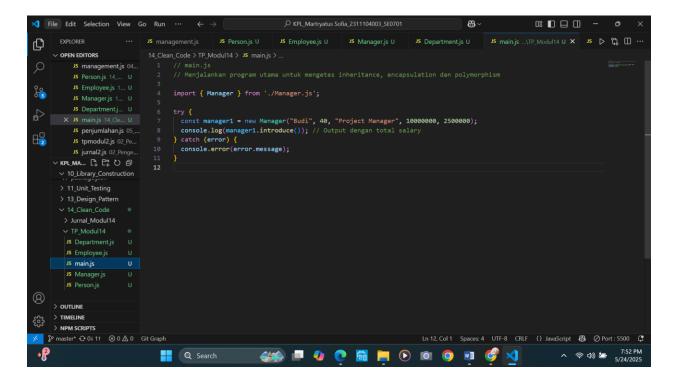
      > OUTLINE
                                              getDepartementInfo() {
                                                                                                                                                         	imes File Edit Selection View Go Run \cdots \leftarrow 	o
                                                                                                                                    æ.
                        ··· J5 managementjs X J5 Personjs U J5 Employeejs U J5 Managerjs U J5 Departmentjs U J5 mainjs _\TP_Modul14 U J5 penj 🗦 🛄 ···
D
       EXPLORER
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                                 O4_OOP > IS managements
45 class Departement {
54 getDepartementInfo() {
55 throw new thror("Method 'getDepartementInfo()' must be implemented");
55 throw new thror("Method 'getDepartementInfo()' must be implemented");
           JS Person.js 14_... U
JS Employee.js 1... U
B
           JS penjumlahanjs 05 .... 60 class ITDepartement extends Departement []
JS tpmodul2js 02 Pc... 61 getDepartementInfo() {
    return Department files
                                                   return `Departement ${this.name} depa rtment is working on IT projects`;
        > 02_Pengenalan_IDE_dan... 66
                                   68 console.log(employee1.introduce())
        > jtmodul4_2311104003
                                  70 const manager1 = new Manager("bob", 30, "Manager", 10000, 5000);
71 console.log(manager1.introduce())
         > tpmodul4 2311104003
       > 08_RuntimeConfiguratio...
       V 09_API Design dan Cons.
```

Code yang sudah di rapihkan

> OUTLINE







1. Naming convention

1) Variable / Property / Attribute

```
this.name = name;
this.age = age;

this.position = position;

this.salary = salary; //
this.bonus = bonus;
```

Sudah menggunakan camelCase.

Nama-nama variabel sudah deskriptif dan sesuai dengan fungsinya.

2) Method / Function / Procedure

```
// Mengembalikan total gaji
getTotalSalary() {
  return this.salary + this.bonus;
}

// Override method introduce
introduce() {
  return `${super.introduce()} I am a ${this.jobTitle}. My total salary is ${this.getTotalSalary()}.`;
}
```

Nama method sudah sesuai konvensi camelCase dan deskriptif.

2. White space dan indentation

```
introduce() {
    return `${super.introduce()} and I am a ${this.position}.`;
}
```

secara umum indentasi (tab/spasi) sudah rapi

3. Variable / attribute declarations

```
class Manager extends Employee {
  constructor(name, age, jobTitle, salary, bonus) {
    super(name, age, jobTitle);
    this.salary = salary; //salary harus didefinisikan di sini
    this.bonus = bonus;
    this.jobTitle = jobTitle; // Untuk dipakai di introduce
}
```

4. Comments

```
// Manager.js
// Class turunan dari Employee dengan tambahan atribut bonus dan salary (Polymorphism + Encapsulation)
```

Hasil Running

```
PS D:\Kuliah\SEMESTER 4\PRAKTIKUM KPL\KPL_Martryatus Sofia_2311104003_SE0701\14_Clean_Code\TP_Modul14> node main.js
My name is Sofia and I am 25 years old. and I am a Project Manager. My total salary is 10000000.
PS D:\Kuliah\SEMESTER 4\PRAKTIKUM KPL\KPL_Martryatus Sofia_2311104003_SE0701\14_Clean_Code\TP_Modul14> [
```