TP MODUL 14

Modul 2 – Code yang belum rapih

```
/> JS managemently > %3 ||TDepartement |
//Encapsulation

class Person {
    constructor(name,age){
        this.name = name;
        this.age = age;
    }
    introduce(){
        return 'My name is ${this.name} and I am ${this.age} years old';
    }
}

//Ingeritance

class Employee extends Person {
    constructor(name,age,position){
        super(name,age);
        this.position = position;
    }
    introduce(){
        return '${super.introduce()} and I am a ${this.position}';
    }

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

//Polymorphism dan Encapsulation class Manager extends Employee{
```

```
//Polymorphism dan Encapsulation
class Manager extends Employee{
    constructor(name, age, jobTitle, salary, bonus){
        super(name, age, jobTitle, salary);
        this.bonus = bonus;
    }

    getTotalSalary(){
        return this.salary + this.bonus;
    }

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

class Departement {
    constructor(name) {
        if(this.constructor === Departement) {
            throw new Error("Cannot instantiate from abstract class");
        }
        this.name = name;
    }

    getDepartementInfo() {
```

```
DOP > JS managementjs > % ITDepartement

class Departement {
    getDepartementInfo() {
        throw new Error("Method 'getDepartementInfo()' must be implemented");
    }
}

class ITDepartement extends Departement {
    getDepartementInfo() {
        return 'Departement ${this.name} depa rtment is working on IT projects';
    }
}

const employee1 = new Employee("alice", 25, "Software Engineer", 5000);
    console.log(employee1.introduce())

const manager1 = new Manager("bob", 30, "Manager", 10000, 5000);
    console.log(manager1.introduce())

const itDepartement = new ITDepartement("IT");
    console.log(itDepartement .getDepartementInfo())
```

Code yang sudah di rapihkan

```
14_Clean_Code > TP_Modul14 > Js Employee;s > ...

1     import { Person } from './Person.js';

2     export class Employee extends Person {
        constructor(name, age, position) {
            super(name, age);
            this.position = position;
        }

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

13     }
```

```
Ilean_Code > TP_Modul14 > J5 Managerjs > % Manager > % constructor

// Manager.js

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

import { Employee } from './Employee.js';

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

// 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()}.`;
}

export { Manager };
```

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JS Employee.js 1... U
66
                         class Person {
constructor(name, age) {
    this.name = name;
    this.age = age;
}

10 // Method untuk memperkenalkan diri
11 introduce() {
                              return `My name is ${this.name} and I am ${this.age} years old.`;
}
    ∨KPLMA... [‡ ロロ

√ 10_Library_Construction

     V TP Modul14
```

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

Hallo, nama saya Ahmad Uffi, saya berusia 40 tahun, bekerja sebagai Project Manager dengan total gaji Rp12500000.