LAPORAN ETS
TEKNIK PEMROGRAMAN

Dosen Pengampu:
Zulkifli Arsyad

Disusun oleh:

Zahra Hilyatul Jannah   (231524031)

Program Studi   : D4 Teknik Informatika
Kelas   : 1A-TIF4

PROGRAM STUDI SARJANA TERAPAN TEKNIK INFORMATIKA
JURUSAN TEKNIK KOMPUTER DAN INFORMATIKA
POLITEKNIK NEGERI BANDUNG

BAGIAN I

1. Pada kelas diagram pada soal penerapan multiple inheritance terdapat pada kelas FullTime. Kelas FullTime mengimplementasi Interface Koperasi dan meng extends kelas Employee.

```java
package Koperasi;

public class FullTime extends Employee implements Koperasi {
    private int anak;
    private int pinjaman;
    private int tunJab;
    private int tunKom = 500000;

    public FullTime(String name, String depName, int jamLembur, int anak, int
pinjaman) {
        super (name, depName, jamLembur);
        this.pinjaman = pinjaman;
        this.anak = anak;
    }

    public int getTunAnak() {
        return anak*500000;
    }

    @Override
    public int LoanMonthly() {
        return pinjaman;
    }

    @Override
    public int getSalary() {
        int salary = super.getSalary() + super.getTunDep() + tunKom +
getTunAnak() - LoanMonthly();
        return salary;
    }

}
```

2. Kelas yang menerapkan agregasi adalah kelas Employee, di kelas Employee saya menginiasiasi kelas departemen.

```java
package Koperasi;

public class Employee {
    private String name;
    private String depName;
    private int basePay;
    private int tunLembur;
    private int jamLembur;
```

```java
        private int tunDep;

        departement depart = new departement ();

        public Employee(String name, String depName, int jamLembur) {
                this.depName = depart.getDepName(depName);
                this.name = name;
                this.jamLembur = jamLembur;
        }

        public int getTunDep() {
                if (depName == "Manager") {
                        return 5000000;
                } else if (depName == "Programmer") {
                        return 2000000;
                } else if (depName == "Analis") {
                        return 3000000;
                }
                return 0;
        }

        public int getTunLembur() {
                return jamLembur*30000;
        }

        public void setTunLembur(int tunLembur) {
                this.tunLembur = tunLembur;
        }

        public int getBasePay() {
                if (depName == "Manager") {
                        return 5000000;
                } else if (depName == "Programmer") {
                        return 3000000;
                } else if (depName == "Analis") {
                        return 3000000;
                }
                return 0;
        }

        public int getSalary() {
                return getBasePay() + getTunLembur();
        }

        public String toString() {
          return null;
        }
    }
}
```

BAGIAN II

Soal 1

```
interface Koperasi

class departement
      private String depName;

class Employee
      private String name;
      private String depName;
      private int basePay;
      private int tunLembur;
      private int jamLembur;
      private int tunDep;

class FullTime extends Employee implements Koperasi
      private int anak;
      private int pinjaman;
      private int tunKom = 500000;

class PartTime extends Employee
```

Soal 2

Menerapkan Enkapsulapsi

Soal 3 : Gaji pokok

```
      public int getBasePay() {
            if (depName == "Manager") {
                  return 5000000;
            } else if (depName == "Programmer") {
                  return 3000000;
            } else if (depName == "Analis") {
                  return 3000000;
            }
            return 0;
      }
```

Soal 4

```
package Koperasi;

public class Staff {

      public static void main(String[] args) {
            FullTime Asep = new FullTime ("Asep, ", "Programmer", 3, 2, 500000);
```

```java
        PartTime Ujang = new PartTime ("Ujang ", "Programmer" , 5) ;

        System.out.println("Gaji Asep di bulan April adalah " +
    Asep.getSalary());
        System.out.println("Gaji Ujang di bulan April adalah " +
    Ujang.getSalary());
    }
}
```