Jobsheet 6

⊙ Subject	Object Oriented Programming
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⊙ Type	Assignment
⊙ Semester	Semester 3
▦ Time	@October 23, 2023

questions 1

1. change the code in `classB` to like this

   ```
   public class ClassB extends ClassA {
   ...
   }
   ```

2. because in the `classB` we call the `x` and `y` but we don't `extends` it from `classA`

questions 2

1. same as questions 1, change the code from `classB` like so, after that we create the `getX` and `getY` function inside the `classA` then we change the code in `getJumlah()` function to like this

   ```
   System.out.println("jumlah:"+ (getX() + getY() + z);
   ```

2. that is because we don't extend the `classA` inside `classB` and we can't use `x` and `y` because the class is private, so we need getter to get the value

questions 3

1. it's used to call the `super` or the class that is being extended

2. `super` is used to call it from the extended class, while `this` is used to call the data in the same class

3. because we can call it from `Bangun` by using `super`

questions 4

1. the superclass is `ClassA` and `ClassB` while the subclass is `ClassC` and `ClassB`

2. uhhhh yes?

3. because from `ClassC` we call the `ClassB` which calling the `ClassA` so that the `ClassC` will print like so

4. it is used to call the constructor of the superclass

task

```
package task;

public class DaftarGaji {
    Pegawai[] listPegawai;

    DaftarGaji(int jumlahPegawai) {
        listPegawai = new Pegawai[jumlahPegawai];
    }

    void addPegawai(Pegawai pegawai) {
        for (int i = 0; i < listPegawai.length; i++) {
            if (listPegawai[i] == null) {
                listPegawai[i] = pegawai;
                break;
            }
        }
    }

    void printSemuaGaji() {
        for (int i = 0; i < listPegawai.length; i++) {
            if (listPegawai[i] != null) {
                System.out.println("Name : " + listPegawai[i].getNama());
                System.out.println("Gaji : " + listPegawai[i].getGaji());
                System.out.println();
            }
        }
```

```
        }
    }
```

```
package task;

public class Dosen extends Pegawai {
    private int jumlahSKS, TARIF_SKS;

    public Dosen(String nip, String nama, String alamat) {
        super(nip, nama, alamat);
        this.TARIF_SKS = 1000000;
    }

    void setSKS(int jumlahSKS) {
        this.jumlahSKS = jumlahSKS;
    }

    int getGaji() {
        return TARIF_SKS * jumlahSKS;
    }
}
```

```
package task;

public class Pegawai {
    private String nip, nama, alamat;
    private int gaji;

    public Pegawai(String nip, String nama, String alamat) {
        this.nip = nip;
        this.nama = nama;
        this.alamat = alamat;
    }

    String getNama() {
        return nama;
    }

    int getGaji() {
        return gaji;
    }
}
```

```
package task;
```

```
public class main {
    public static void main(String[] args) {
        DaftarGaji DG = new DaftarGaji(10);

        Dosen D1 = new Dosen("123", "Budi", "Bandung");
        Dosen D2 = new Dosen("456", "Andi", "Jakarta");
        Dosen D3 = new Dosen("789", "Caca", "Surabaya");

        D1.setSKS(9);
        D2.setSKS(8);
        D3.setSKS(12);

        DG.addPegawai(D1);
        DG.addPegawai(D2);
        DG.addPegawai(D3);
        DG.printSemuaGaji();
    }
}
```

```
/home/elmira/.jdks/openjdk-20/bin/jav
Name : Budi
Gaji : 9000000

Name : Andi
Gaji : 8000000

Name : Caca
Gaji : 12000000
```