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TUGAS OVERLOADING DAN OVERRIDING

Overloading

- Nomor 1

```
package overloading;

public class Pegawai {
    private int gajiPokok;
    private int tunjangan;
    private int bonus;
    private int lembur;

    Pegawai(){
        gajiPokok = 0;
        tunjangan = 0;
        bonus = 0;
        lembur = 0;
    }

    Pegawai(int gajiPokok, int tunjangan, int bonus, int lembur){
        this.gajiPokok = gajiPokok;
        this.tunjangan = tunjangan;
        this.bonus = bonus;
        this.lembur = lembur;
    }

    public void setGajiPokok(int gajiPokok) {
        this.gajiPokok = gajiPokok;
    }

    public void setTunjangan(int tunjangan) {
        this.tunjangan = tunjangan;
    }

    public void setBonus(int bonus) {
        this.bonus = bonus;
    }

    public void setLembur(int lembur) {
        this.lembur = lembur;
    }

    public int getGajiPokok() {
        return gajiPokok;
    }
}
```


- **Nomor 2**

```
package overloading;

public class Individu {
    private String nama;
    private String warnaKulit;
    private int tinggiBadan;
    private int beratBadan;

    Individu(){
        nama = "";
        warnaKulit = "";
        tinggiBadan = 0;
        beratBadan = 0;
    }

    public void setIdentitas(String nama){
        this.nama = nama;
    }

    public void setIdentitas(String nama, String warnaKulit){
        this.nama = nama;
        this.warnaKulit = warnaKulit;
    }

    public void setIdentitas(String nama, String warnaKulit, int tinggiBa
dan){
        this.nama = nama;
        this.warnaKulit = warnaKulit;
        this.tinggiBadan = tinggiBadan;
    }

    public void setIdentitas(String nama, String warnaKulit, int tinggiBa
dan, int beratBadan){
        this.nama = nama;
        this.warnaKulit = warnaKulit;
        this.tinggiBadan = tinggiBadan;
        this.beratBadan = beratBadan;
    }

    public void cetakIdentitas(){
        System.out.println("Nama: " + nama + "\nWarna Kulit: " + warnaKul
it + "\nTinggi Badan: " + tinggiBadan + "\nBerat Badan: " + beratBadan);
    }
}

class IndividuDriver{
    public static void main(String[] args) {
```

```

Individu asep = new Individu();
asep.setIdentitas("Asep");
asep.cetakIdentitas();

Individu ujang = new Individu();
ujang.setIdentitas("Ujang", "Hitam");
ujang.cetakIdentitas();

Individu andri = new Individu();
andri.setIdentitas("Andri", "Putih", 157);
andri.cetakIdentitas();

Individu ayu = new Individu();
ayu.setIdentitas("Ayu", "Kuning Langsung", 165, 53);
ayu.cetakIdentitas();
}
}

```

```

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\Documents\Universitas Sriwijaya\Semester 4 (24)\OOP\Practice\polymorphism\polymorphism> & 'c:\Users\USER\.vscode\extensions\vscjava.vscode-java-debug-0.31.0\scripts\launcher.bat' 'C:\Program Files\Java\jdk-13.0.2\bin\java.exe' "-Dfile.encoding=UTF-8" "-cp" "C:\Users\USER\AppData\Roaming\Code\User\workspaceStorage\abf6ad57595cc2802a5dbde24e7dca9\redhat.java\jdt_ws\polymorphism_60c6ae9d\bin" "overloading.IndividuDriver"
Nama: Asep
Warna Kulit:
Tinggi Badan: 0
Berat Badan: 0
Nama: Ujang
Warna Kulit: Hitam
Tinggi Badan: 0
Berat Badan: 0
Nama: Andri
Warna Kulit: Putih
Tinggi Badan: 157
Berat Badan: 0
Nama: Ayu
Warna Kulit: Kuning Langsung
Tinggi Badan: 165
Berat Badan: 53
PS D:\Documents\Universitas Sriwijaya\Semester 4 (24)\OOP\Practice\polymorphism\polymorphism>

```

Overriding

- Penggajian-1

```

package overriding_no1;

public class Pegawai {
    private int gajiPokok;
    private int tunjangan;
    private int bonus;
    private int lembur;

    Pegawai(){
        gajiPokok = 0;
        tunjangan = 0;
        bonus = 0;
        lembur = 0;
    }
}

```

```

Pegawai(int gajiPokok, int tunjangan, int bonus, int lembur){
    this.gajiPokok = gajiPokok;
    this.tunjangan = tunjangan;
    this.bonus = bonus;
    this.lembur = lembur;
}

public void setGajiPokok(int gajiPokok) {
    this.gajiPokok = gajiPokok;
}

public void setTunjangan(int tunjangan) {
    this.tunjangan = tunjangan;
}

public void setBonus(int bonus) {
    this.bonus = bonus;
}

public void setLembur(int lembur) {
    this.lembur = lembur;
}

public int getGajiPokok() {
    return gajiPokok;
}

public int getTunjangan() {
    return tunjangan;
}

public int getBonus() {
    return bonus;
}

public int getLembur() {
    return lembur;
}

public int hitungGaji(){
    return 200000;
}
}

class Analis extends Pegawai {
    @Override
    public int hitungGaji(){
        return getGajiPokok() + getTunjangan();
    }
}

```


- Penggajian-2

```
package overriding_no2;

public class Pegawai {
    private String nama;
    private String nip;
    private String alamat;

    Pegawai(){
        nama = " ";
        nip = " ";
        alamat = " ";
    }

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

    public void setNama(String nama) {
        this.nama = nama;
    }

    public void setNip(String nip) {
        this.nip = nip;
    }

    public void setAlamat(String alamat) {
        this.alamat = alamat;
    }

    public String getNama() {
        return nama;
    }

    public String getNip() {
        return nip;
    }

    public String getAlamat() {
        return alamat;
    }

    public int getGaji(){
        return 2000000;
    }
}
```

```

class Dosen extends Pegawai{
    private int jumlahSKS;
    private final int tarifSKS = 50000;

    Dosen(){
        super();
    }

    Dosen(String nama, String nip, String alamat){
        super(nama, nip, alamat);
    }

    public void setJumlahSKS(int jumlahSKS) {
        this.jumlahSKS = jumlahSKS;
    }

    @Override
    public int getGaji() {
        return jumlahSKS * tarifSKS;
    }
}

class Staff extends Pegawai{
    private int jumlahKehadiran;
    private final int tarifKehadiran = 30000;

    Staff(){
        super();
    }

    Staff(String nama, String nip, String alamat){
        super(nama, nip, alamat);
    }

    public void setJumlahKehadiran(int jumlahKehadiran) {
        this.jumlahKehadiran = jumlahKehadiran;
    }

    @Override
    public int getGaji() {
        return jumlahKehadiran * tarifKehadiran;
    }
}

class PegawaiDriver{
    public static void main(String[] args) {
        Dosen andi = new Dosen();
    }
}

```



```
andi.setJumlahSKS(20);  
System.out.println(andi.getGaji());
```

```
Dosen budi = new Dosen();  
budi.setJumlahSKS(21);  
System.out.println(budi.getGaji());
```

```
Staff citra = new Staff();  
citra.setJumlahKehadiran(30);  
System.out.println(citra.getGaji());
```

```
Staff danu = new Staff();  
danu.setJumlahKehadiran(21);  
System.out.println(danu.getGaji());
```

```
}
```

```
}
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

1: Java Process Console + □ ✕

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```
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```

```
1800000
```

```
1050000
```

```
900000
```

```
630000
```

```
PS D:\Documents\Universitas Sriwijaya\Semester 4 (24)\OOP\Practice\polymorphism\polymorphism>
```

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