

Exercise 1

1. Manajer

```
package excercise1;
public class Manajer extends Pegawai{
    private int tunjangan;

public Manajer(String nama, int gaji,int tunjangan) {
    super(nama, gaji);
    this.tunjangan = tunjangan;
}

public int getTunjangan() {
    return tunjangan;
}

public int getGaji() {
    return super.getGaji();
}
```

2. Pegawai

```
package excercise1;
public class Pegawai {
    protected String nama;
    protected int gaji;

public Pegawai() {
    }

public Pegawai(String nama, int gaji) {
    this.nama = nama;
    this.gaji = gaji;
}

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



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ELAS : 2C / TI

MATERI : Polimorfisme

3. Programmer

```
package excercise1;
public class Programmer extends Pegawai{
    private int bonus;

public Programmer(String nama, int gaji,int bonus) {
    super(nama, gaji);
    this.bonus = bonus;
}

public int getBonus() {
    return bonus;
}

public int getGaji() {
    return super.getGaji();
}
```

4. Bayaran

```
package excercise1;
public class Bayaran {
   public int hitungBayaran(Pegawai pg){
        int uang = pg.getGaji();
        if(pg instanceof Manajer){
            uang +=((Manajer)pg).getTunjangan();
        }else if(pg instanceof Programmer){
            uang +=((Programmer)pg).getBonus();
        }
        return uang;
}
```

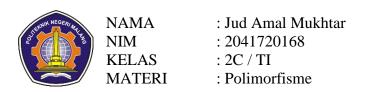
5. TestBayaran

```
pockage excercise1;
public class TestBayaran {
    public static void main(String[] args) {
        Manajer man=new Manajer("Agus",800,50);
        Programmer prog=new Programmer("Budi",600,30);
        Bayaran hr=new Bayaran();

        System.out.println("Bayaran Manajer : "+hr.hitungBayaran(man));
        System.out.println("Bayaran Programmer : "+hr.hitungBayaran(prog));
}
```

6. Output

```
run:
Bayaran Manajer : 850
Bayaran Programmer : 630
BUILD SUCCESSFUL (total time: 0 seconds)
```



Exercise 2

1. Elektronik

```
package excercise2;
public class Elektronik {
   protected int voltase;

public Elektronik() {
   this.voltase=220;
}

public int getVoltase() {
   return voltase;
}

}
```

2. TelevisiJadul

```
package excercise2;
public class TelevisiJadul extends Elektronik{
    private String modelInput;

public TelevisiJadul() {
    this.modelInput="DVI";
}

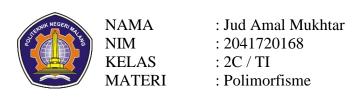
public String getModelInput() {
    return modelInput;
}
```

3. TelevisiModern

```
package excercise2;
public class TelevisiModern extends Elektronik{
    private String modelInput;

public TelevisiModern() {
    this.modelInput="HDMI";|
}

public String getModelInput() {
    return modelInput;
}
```



4. Manusia

```
package excercise2;
public class Manusia {
   public void nyalakanPerangkat(Elektronik pkt) {
        String info1="Nyalakan televisi ";
        String info2=" dengan Input: ";
        String info3="\nVoltase televisi: ";
        if(pkt instanceof TelevisiJadul) {
            info1+="jadul";
            info2+=((TelevisiJadul)pkt).getModelInput();
            info3+=((TelevisiJadul)pkt).getVoltase();
        }
        else if(pkt instanceof TelevisiModern) {
            info1+="modern";
            info2+=((TelevisiModern)pkt).getModelInput();
            info3+=((TelevisiModern)pkt).getVoltase();
        }
        System.out.println(info1+info2+info3);
    }
}
```

5. TestElektronik

```
package excercise2;
public class TestElektronik {

public static void main(String[] args) {
    Manusia indro=new Manusia();
    TelevisiJadul tvjadul=new TelevisiJadul();
    TelevisiModern tvmodern=new TelevisiModern();

indro.nyalakanPerangkat(tvjadul);
    indro.nyalakanPerangkat(tvmodern);
}

indro.nyalakanPerangkat(tvmodern);
}
```

6. Output

```
run:
Nyalakan televisi jadul dengan Input: DVI
Voltase televisi: 220
Nyalakan televisi modern dengan Input: HDMI
Voltase televisi: 220
BUILD SUCCESSFUL (total time: 0 seconds)
```