

: Abdulah Syahrony Kurniawan

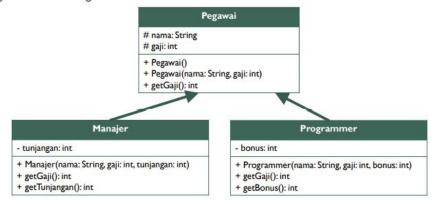
: 2041720037 : TI-2C

: Polimorfisme TEORI

Exercise 1

# **EXERCISE I**

Buatlah program dari class diagram dibawah:



### Class Pegawai

```
package exercisel;
6
   - /**
7
8
       * @author LENOVO
9
10
0
      public class Pegawai {
12
         protected String nama;
13
          protected int gaji;
14
15 🖃
          public Pegawai() {
16
17
18
19 📮
          public Pegawai(String nama, int gaji) {
20
             this.nama = nama;
              this.gaji = gaji;
21
22
23
0
  口
          public int getGaji() {
25
             return gaji;
26
27
28
      }
29
```



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### Class Manajer

```
10 L */
    public class Manajer extends Pegawai{
 11
        private int tunjangan;
13
 public Manajer(String nama, int tunjangan, int gaji) {
         super(nama, gaji);
 15
            this.tunjangan = tunjangan;
 16
 17
 18
         @Override
 19
        public int getGaji() {
 21
         return gaji;
 22
 23
 24
 25 📮
        public int getTunjangan() {
 26
         return tunjangan;
 27
    }
 28
29
```

# Class Programmer

```
10 4/
11
     public class Programmer extends Pegawai{
        private int bonus;
13
Public Programmer(String nama, int gaji, int bonus) {
15
           super(nama, gaji);
16
             this.bonus = bonus;
17
18
19 📮
         public int getBonus() {
20
         return bonus;
21
22
23
         @Override

    □
         public int getGaji() {
         return gaji;
25
26
27
28
29
    }
30
```



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## **EXERCISE I**

Kemudian buat class Bayaran dan TestBayaran dibawah ini untuk pengetesan:

### Class Bayaran

```
10 4/
11
      public class Bayaran {
12
         public int hitungBayaran(Pegawai pg) {
13
              int uang = pg.getGaji();
14
<u>Q.</u>
              if (pg instanceof Manajer) {
16
                  uang += ((Manajer)pg).getTunjangan();
17
18
              else if (pg instanceof Manajer) {
19
                   uang +=((Programmer)pg).getBonus();
20
21
              return uang;
22
          1
23
      }
24
```

## Main

```
10 - */
     public class Main {
11
12
          public static void main(String[]args) {
13
             Manajer m = new Manajer("Rony", 800, 50);
             Programmer pro = new Programmer("Dul", 600, 30);
14
             Bayaran b = new Bayaran();
15
16
17
              System.out.println("Bayaran Manajer: "+ b.hitungBayaran(m));
             System.out.println("Bayaran Programmer : "+ b.hitungBayaran(pro));
18
19
          }
20
      }
21
```

#### Hasil

```
Output - tugasPBO01 (run)

run:

Bayaran Manajer: 850

Bayaran Programmer: 600

BUILD SUCCESSFUL (total time: 0 seconds)
```

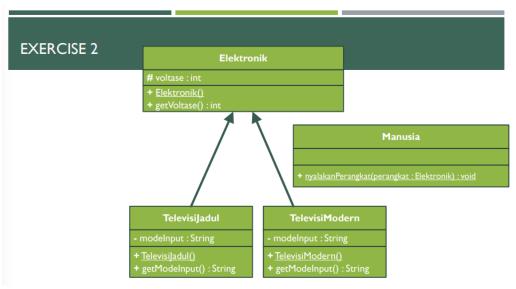


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Exercise 2



### Class Elektronik

```
9
      * @author LENOVO
   */
10
1
     public abstract class Elektronik {
12
        protected int vorltase = 220;
13
14 🖃
        public Elektronik(){
15
16
17
18 📮
         public int getVorltase() {
19
             System.out.print("Voltase televisi : ");
             return vorltase;
20
21
22
1
         public abstract String getModelInput();
24
25
```

# Class Televisi Jadul

```
* @author LENOVO
9
     */
10
11
     public class TelevisiJadul extends Elektronik{
         private String modelInput = "DVI";
13
14 📮
         public TelevisiJadul() {
15
16
‰↓ □
         public String getModelInput() {
          System.out.println("Nyalakan televisi jadul dengan input : "+modelInput);
20
             System.out.println(super.getVorltase());
21
             return null;
22
23
```



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### Class Televisi Modern

```
9
      * @author LENOVO
10
     public class TelevisiModern extends Elektronik{
         private String modelInput = "HDMI";
Q.
13
14 🖃
         public TelevisiModern() {
15
16
17
18
         @Override
ⓐ 📮
         public String getModelInput() {
20
            System.out.println("Nyalakan televisi jadul dengan input : "+modelInput);
21
             System.out.println(super.getVorltase());
22
23
24
```

### Class Manusia

## Main

```
9
       * @author LENOVO
     */
10
11
     public class Main {
          public static void main(String[]args) {
  12
13
              Manusia rony = new Manusia();
              TelevisiJadul jadul = new TelevisiJadul();
14
              TelevisiModern modern = new TelevisiModern();
15
16
17
              rony.nyalakanPerangkat(jadul);
18
              rony.nyalakanPerangkat(modern);
19
20
```

#### Hasil

```
Output - tugasPBO01 (run)

run:

Nyalakan televisi jadul dengan input : DVI

Voltase televisi : 220

Nyalakan televisi jadul dengan input : HDMI

Voltase televisi : 220

BUILD SUCCESSFUL (total time: 0 seconds)
```