

: 2041720028 : TI – 2C

: PBO (Tugas Pertemuan 11)

EXERCISE 1

Class Pegawai

```
package TeoriMinggull.EXERCISE1;
 8
    - /**
    * @author PC-HP
 10
 11
    public class Pegawai {
 13
       protected String nama;
 14
        protected int gaji;
 15
        public Pegawai(String nama, int gaji) {
 16 📮
 17
            this.nama = nama;
             this.gaji = gaji;
 18
 19
 20
   뒨
        public Pegawai() {
 21
 22
 23
         public int getGaji() {
 25
          return gaji;
 26
 27
 28
     }
 29
30
```

Class Manajer

```
package TeoriMinggull.EXERCISE1;
7
8 🖵 /**
9
10
       * @author PC-HP
                          Field tunjangan can be final
11
      public class Manaj (Alt-Enter shows hints)
12
<u>Q.</u>
         private int tunjangan;
14
15 🖃
          public Manajer (String nama, int gaji, int tunjangan)
16
              super.nama = nama;
              super.gaji = gaji;
17
18
              this.tunjangan = tunjangan;
19
20
}.↓ □
          public int getGaji() {
22
              return gaji;
23
24
25 🖃
          public int getTunjangan() {
26
             return tunjangan;
27
```



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Class Programmer

NIM

```
package TeoriMinggull.EXERCISE1;
 7
 8 - /**
 9
       * @author PC-HP
 10
 11
       */
     public class Programmer extends Pegawai {
 12
         private int bonus;
 14
 15 =
         public Programmer(String nama, int gaji, int bonus) {
             super.nama = nama;
 16
 17
              super.gaji = gaji;
 18
             this.bonus = bonus;
 19 L
 20
 21 =
         public int getBonus() {
 22
          return bonus;
 23
 24
<u>Q</u>.↓ □
          public int getGaji() {
             return gaji;
 26
 27
28
```

Class Bayaran

```
6
      package TeoriMinggull.EXERCISE1;
7
8 - /**
9
10
      * @author PC-HP
      */
11
12
      public class Bayaran {
13 -
          public int hiitungBayaran(Pegawai pg) {
            int uang = pg.getGaji();
14
15
16
           if(pg instanceof Manajer) {
17
               uang+=((Manajer)pg).getTunjangan();
18
            }else if(pg instanceof Programmer){
19
               uang += ((Programmer)pg).getBonus();
20
            }
21
            return uang;
22
23
      }
24
```



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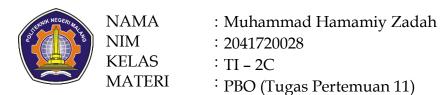
Class TestBayaran

```
6
     package TeoriMinggull.EXERCISE1;
7
8
     public class TestBayaran {
9
10 🖃
         public static void main(String[] args) {
11
            Manajer man = new Manajer("Agus", 800, 50);
             Programmer prog = new Programmer("Budi", 600, 30);
12
             Bayaran hr = new Bayaran();
13
14
             System.out.println("Bayaran manajer " + hr.hiitungBayaran(man));
15
16
              System.out.println("Bayaran Programmer: " + hr.hiitungBayaran(prog));
17
18
     }
```

Hasil

```
Output-Semester3(run) ×

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



EXERCISE 2

Class ELektronik

```
package TeoriMinggull.EXERCISE2;
7
 8
   - /**
9
      * @author PC-HP
10
11
      */
0
   public class Elektronik {
13
         protected int voltase = 220;
14
15
16 T
        public Elektronik() {
17
         }
18
19 🖵
         public int getVoltase() {
20
             return voltase;
21
```

Class TelevisiJadul



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```
package TeoriMinggull.EXERCISE2;
7
8 🖵 /**
9
      * @author PC-HP
10
   L */
11
12
     public class TelevisiJadul extends Elektronik{
₽.
         private String modelInput ="DVI";
14
15 E
         public TelevisiJadul() {
16
17
18
  戸
         public String getModelInput() {
19
            return modelInput;
20
         }
21
22
23
     }
24
```

Class TelevisiModern

```
package TeoriMinggull.EXERCISE2;
8 🖵 /**
12 public class TelevisiModern extends Elektronik{
      private String modelInput = "HDMI";
14
public TelevisiModern() {
16
       }
17
      public String getModelInput() {
18 🖃
19
        return modelInput;
20
21
22
23
    }
24
```

Class Manusia



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```
package TeoriMinggull.EXERCISE2;
7
  - /**
10
      * @author PC-HP
11
     public class Manusia {
12
13 🖃
      public void nyalahkanPerangkat(Elektronik perangkat) {
14
        if(perangkat instanceof TelevisiJadul){
           System.out.println("Nyalahkan Televisi jadul dengan input: "+ ((TelevisiJadul) perangkat).getModelInput()
15
             +"\nVoltase Televisi: "+ perangkat.getVoltase());
         }else if( perangkat instanceof TelevisiModern){
17
              System.out.println("Nyalahkan Televisi moderen dengan input: "+ ((TelevisiModern) perangkat).getModelInput()
            +"\nVoltase Televisi: "+ perangkat.getVoltase());
```

Class TestElektronik

NIM

```
package TeoriMinggull.EXERCISE2;
7
8
   - /**
9
10
       * @author PC-HP
11
12
     public class TestElektronik {
13 🖃
         public static void main(String[] args) {
14
             Manusia zadah = new Manusia();
15
             TelevisiJadul tvJadul = new TelevisiJadul();
16
              TelevisiModern tvModern = new TelevisiModern();
17
              zadah.nyalahkanPerangkat(tvJadul);
18
19
              zadah.nyalahkanPerangkat(tvModern);
20
21
      }
22
```

Hasil

Output-Semester3(run) × run: Nyalahkan Televisi jadul dengan input: DVI Voltase Televisi: 220 Nyalahkan Televisi moderen dengan input: HDMI Voltase Televisi: 220 BUILD SUCCESSFUL (total time: 0 seconds)