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Tugas Pertemuan 11

Exercise 1

- Pegawai

```
1 package exercisel;  
2  
3 public class Pegawai {  
4     protected String nama;  
5     protected int gaji;  
6  
7     public Pegawai() {  
8     }  
9  
10    public Pegawai(String nama, int gaji) {  
11        this.nama = nama;  
12        this.gaji = gaji;  
13    }  
14  
15    public int getGaji() {  
16        return gaji;  
17    }  
18 }
```

- Manajer

```
1 package exercisel;  
2  
3 public class Manajer extends Pegawai{  
4     private int tunjangan;  
5  
6     public Manajer(String nama, int gaji, int tunjangan) {  
7         super(nama, gaji);  
8         this.tunjangan = tunjangan;  
9     }  
10  
11    public int getTunjangan() {  
12        return tunjangan;  
13    }  
14  
15    public int getGaji() {  
16        return super.getGaji();  
17    }  
18 }
```



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- Programmer

```
1 package exercisel;  
2  
3 public class Programmer extends Pegawai{  
4     private int bonus;  
5  
6     public Programmer(String nama, int gaji, int bonus) {  
7         super(nama, gaji);  
8         this.bonus = bonus;  
9     }  
10  
11     public int getBonus() {  
12         return bonus;  
13     }  
14  
15     public int getGaji() {  
16         return super.getGaji();  
17     }  
18 }
```

- Bayaran

```
1 package exercisel;  
2  
3 public class Bayaran {  
4  
5     public int hitungBayaran(Pegawai pg) {  
6         int uang = pg.getGaji();  
7         if (pg instanceof Manajer) {  
8             uang += ((Manajer) pg).getTunjangan();  
9         } else if (pg instanceof Programmer) {  
10            uang += ((Programmer) pg).getBonus();  
11        }  
12        return uang;  
13    }  
14 }
```

- TestBayaran

```
1 package exercisel;  
2  
3 public class TestBayaran {  
4     public static void main(String[] args) {  
5         Manajer man = new Manajer("Agus", 800, 50);  
6         Programmer prog = new Programmer("Budi", 600, 30);  
7         Bayaran hr = new Bayaran();  
8  
9         System.out.println("Bayaran Manajer : " + hr.hitungBayaran(man));  
10        System.out.println("Bayaran Programmer : " + hr.hitungBayaran(prog));  
11    }  
12 }
```

- Output

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



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Exercise 2

- Elektronik

```
1 package exercise2;  
2  
3 public class Elektronik {  
4     protected int voltase;  
5  
6     public Elektronik() {  
7         this.voltase = 220;  
8     }  
9  
10    public int getVoltase() {  
11        return voltase;  
12    }  
13 }
```

- TelevisiJadul

```
1 package exercise2;  
2  
3 public class TelevisiJadul extends Elektronik{  
4     private String modelInput;  
5  
6     public TelevisiJadul() {  
7         this.modelInput = "DVI";  
8     }  
9  
10    public String getModelInput() {  
11        return modelInput;  
12    }  
13 }
```

- TelevisiModern

```
1 package exercise2;  
2  
3 public class TelevisiModern extends Elektronik{  
4     private String modelInput;  
5  
6     public TelevisiModern() {  
7         this.modelInput = "HDMI";  
8     }  
9  
10    public String getModelInput() {  
11        return modelInput;  
12    }  
13 }
```



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- Manusia

```
1 package exercise2;
2
3 public class Manusia {
4     public void nyalakanPerangkat(Elektronik pkt){
5         String info1 = "Nyalakan televisi ";
6         String info2 = " dengan Input: ";
7         String info3 = "\nVoltase televisi: ";
8         if(pkt instanceof TelevisiJadul){
9             info1 += "jadul";
10            info2 += ((TelevisiJadul)pkt).getModelInput();
11            info3 += ((TelevisiJadul)pkt).getVoltase();
12        }else if(pkt instanceof TelevisiModern){
13            info1 += "modern";
14            info2 += ((TelevisiModern)pkt).getModelInput();
15            info3 += ((TelevisiModern)pkt).getVoltase();
16        }
17        System.out.println(info1+info2+info3);
18    }
19 }
```

- TestElektronik

```
1 package exercise2;
2
3 public class TestElektronik {
4     public static void main(String[] args) {
5         Manusia indro = new Manusia();
6         TelevisiJadul tvjadul = new TelevisiJadul();
7         TelevisiModern tvmodern = new TelevisiModern();
8
9         indro.nyalakanPerangkat(tvjadul);
10        indro.nyalakanPerangkat(tvmodern);
11    }
12 }
```

- 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)
```