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MODUL 4 PRAKTKUM PEMROGRAMAN BERBASIS OBJEK

A. Abstract Class

• Orang.java

```
1
       package orang;
2
3
4
5
        * @author U53R
6
7
       import java.util.Date;
(1)
        abstract class Orang {
9
            String nama;
            Date tangglLahir;
10
11
           public Orang(){
12
  13
14
15
   public String getNama() {
16
               return nama;
17
18
            public void setNama (String nama) {
19
   20
               this.nama = nama;
21
22
            public Date getTangglLahir() {
23
24
               return tangglLahir:
25
26
27
   public void setTangglLahir(Date tangglLahir) {
28
               this.tangglLahir = tangglLahir;
29
30
(a)
            public abstract String getAlamat();
            public abstract void setAlamat(String alamat);
➂
```

• Pegawai.java

```
package orang;
 1
 2
 3
   - / * *
 4
       * @author U53R
 5
      * /
 6
 7
      public class Pegawai extends Orang {
          private String NIP;
 8
 9
          private String namaKantor;
10
          private String unitKerja;
 ₽
          private String gaji;
          private String alamat;
12
13
14
          public Pegawai() {
15 =
16
17
18 🖃
          public String getNIP() {
              return NIP;
19
20
21
   22
          public void setNIP(String NIP) {
              this.NIP = NIP;
23
24
25
           public String getNamaKantor() {
26
   return namaKantor;
27
28
           }
29
30
   public void setNamaKantor(String namaKantor) {
31
               this.namaKantor = namaKantor;
32
           }
33
   public String getUnitKerja() {
34
               return unitKerja;
35
36
           }
37
           public void setUnitKerja(String unitKerja) {
38
   this.unitKerja = unitKerja;
40
```

```
41
            public void getGaji() {
    \Box
                System.out.println("7 juta");
43
44
45
46
            @Override
•
            public String getAlamat() {
48
                return alamat;
49
50
            @Override
51
            public void setAlamat(String alamat) {
53
                this.alamat = alamat;
54
55
        }
```

• OrangTest.java

```
package orang;
 2 - /**
 3
       * @author U53R
 4
 5
      public class OrangTest {
 6
   7
          public static void main(String[] args) {
              //Orang o = new Orang(); error karena abstract class tidak bisa dibuat objek
 8
              Pegawai luthfi = new Pegawai();
 9
10
              luthfi.setAlamat("Otista 64 C");
              System.out.println(luthfi.getAlamat());
11
12
13
```

• Hasil Running

```
run:
Otista 64 C
BUILD SUCCESSFUL (total time: 0 seconds)
```

B. Interface

• Membuat Interface Dosen.java

```
package orang;
 1
 2
   - / * *
 3
 4
 5
       * @author U53R
      */
 6
 1
      public interface Dosen {
 (1)
          public String getNIDN();
 1
          public void setNIDN(String NIDN);
          public String getKelompokKeahlian();
 1
          public void setKelompokKeahlian(String kelompokKeahlian);
12
      }
```

Mengimplementasikan Interface Dosen ke Kelas Pegawai

Menambahkan default variable NIDN dan keahlian

```
public class Pegawai extends Orang implements Dosen {

private String NIP;

private String namaKantor;

private String unitKerja;

private String gaji;

private String alamat;

string NIDN;

String keahlian;
```

Kemudian menambahkan method getter dan sette untuk dua variable tambahan

```
56
57
          @Override
          public String getNIDN() {
⊕r⊟
59
              return NIDN;
60
61
62
          @Override
1
          public void setNIDN(String NIDN) {
64
              this.NIDN = NIDN;
65
66
          @Override
67
① 🖵
          public String getKelompokKeahlian() {
69
              return keahlian;
70
71
72
          @Override
③ □
          public void setKelompokKeahlian(String kelompokKeahlian) {
74
              keahlian = kelompokKeahlian;
75
76
```

• Menerapkan variable dari interface Dosen ke kelas OrangTest(Main)

```
package orang;
1
 2 - /**
 3
       * @author U53R
 4
 5
 6
      public class OrangTest {
 7 📮
         public static void main(String[] args) {
              //Orang o = new Orang(); error karena abstract class tidak bisa dibuat objek
 8
 9
             Pegawai luthfi = new Pegawai();
             luthfi.setAlamat("Otista 64 C");
10
              System.out.println(luthfi.getAlamat());
11
12
13
              luthfi.setNIDN("12345678");
              luthfi.setKelompokKeahlian("Computer Science");
14
              System.out.println("ada dosen Luthfi dengan NIDN "+luthfi.getNIDN()+
15
                 ", Kelompok "+luthfi.getKelompokKeahlian());
16
17
18
19
```

• Hasil Running

```
run:
Otista 64 C
ada dosen Luthfi dengan NIDN 12345678, Kelompok Computer Science
BUILD SUCCESSFUL (total time: 2 seconds)
```