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IF-46-10

ARF

1. Buatlah implementasi class Prodi dan Mahasiswa sesuai class diagram Kode:

```
Prodi
 31
        //class prodi
 32
 33
        class Prodi{
 34
            //field
            private String nama;
 35
 36
 37
            //setter nama
 38
     public void setNama(String nama) {
 39
                 this.nama = nama;
 40
 41
 42
            //getter nama
 43
     public String getNama() {
                 return this.nama;
 44
 45
 46
            @Override
 47
  0
     public String toString() {
                return this.nama;
 49
 50
 51
Mahasiswa
```

```
//class mahasiswa
52
53
54
       class Mahasiswa{
            //field
55
            private String nama;
56
            private Prodi prodi = new Prodi();
57
58
59
             //setter setter nama
            public void setNama(String nama) {
60
                 this.nama = nama;
61
62
63
             //setter prodi
64
65
            public void setProdi(Prodi prodi) {
                 this.prodi = prodi;
66
67
68
69
70
             //getter nama
71
    public String getNama() {
                  return this.nama;
72
73
        //getter prodi
74
        public Prodi getProdi() {
75
  return this.prodi;
76
77
78
79
        //implementasi display mahasiswa
80
        void displayMahasiswa() {
81
           System.out.print("Nama : "+ this.getNama());
82
           System.out.print("Prodi : "+ this.getProdi().toString());
83
84
85
```

2. Buat implementasi setter dan getter, pada masing-masing class diatas Kode :

Prodi

```
37
            //setter nama
            public void setNama(String nama) {
 38
    39
                this.nama = nama;
 40
 41
 42
            //getter nama
            public String getNama() {
 43
 44
                return this.nama;
 45
 46
Mahasiswa
 59
            //setter setter nama
            public void setNama(String nama) {
 60
     this.nama = nama;
 61
 62
 63
            //setter prodi
 64
            public void setProdi(Prodi prodi) {
 65
     this.prodi = prodi;
 66
 67
 68
 69
 70
            //getter nama
            public String getNama() {
 71
                 return this.nama;
 72
 73
            //getter prodi
 74
            public Prodi getProdi() {
 75
                return this.prodi;
 76
 77
  78
```

3. Buat implementasi method getProdi

Kode:

```
//getter prodi
public Prodi getProdi() {
    return this.prodi;
}
```

4. Buat implementasi method displayMahasiswa di class mahasiswa

```
//implementasi display mahasiswa

void displayMahasiswa() {

System.out.print("Nama : "+ this.getNama());

System.out.print("Prodi : "+ this.getProdi().toString());

}
```

5. Implementasi class di main.java

```
Kode:
```

```
11
      public class TPmod3 {
          public static void main(String[] args) {
12
               Prodi pr1 = new Prodi();
13
               Prodi pr2 = new Prodi();
14
               pr1.setNama(nama: "Informatika");
15
               pr2.setNama(nama: "Rekayasa Perangkat lunak");
16
17
               Mahasiswa mhs1 = new Mahasiswa();
18
               Mahasiswa mhs2 = new Mahasiswa();
19
20
               mhs1.setNama(nama: "Heristam Yuniawan");
21
22
               mhs1.setProdi(prodi: pr1);
               mhs2.setNama(nama: "Nugroho Rahmanto");
23
24
               mhs2.setProdi(prodi: pr2);
25
               mhs1.displayMahasiswa();
26
               System.out.println();
27
               mhs2.displayMahasiswa();
28
29
30
```

## SS lengkap kode:

```
5
      package com.mycompany.tpmod3;
 6
7 - /**
 8
 9
       * @author nbpav
       * /
10
      public class TPmod3 {
11
12 -
          public static void main(String[] args) {
               Prodi pr1 = new Prodi();
13
               Prodi pr2 = new Prodi();
14
               pr1.setNama(nama: "Informatika");
15
               pr2.setNama(nama: "Rekayasa Perangkat lunak");
16
17
18
               Mahasiswa mhs1 = new Mahasiswa();
19
               Mahasiswa mhs2 = new Mahasiswa();
20
               mhs1.setNama(nama: "Heristam Yuniawan");
21
               mhs1.setProdi(prodi: pr1);
22
               mhs2.setNama(nama: "Nugroho Rahmanto");
23
               mhs2.setProdi(prodi: pr2);
24
```

```
mhs1.displayMahasiswa();
26
               System.out.println();
27
               mhs2.displayMahasiswa();
28
29
30
      //class prodi
31
32
      class Prodi{
33
          //field
34
          private String nama;
35
36
37
          //setter nama
   public void setNama(String nama) {
38
               this.nama = nama;
39
40
41
          //getter nama
42
43
   public String getNama() {
44
               return this.nama;
45
46
          @Override
47
          public String toString() {
0
               return this.nama;
```

```
50
             }
51
        //class mahasiswa
52
53
54
        class Mahasiswa{
            //field
55
56
            private String nama;
            private Prodi prodi = new Prodi();
57
58
59
             //setter setter nama
            public void setNama(String nama) {
    60
                 this.nama = nama;
61
62
63
             //setter prodi
64
    public void setProdi(Prodi prodi) {
65
                 this.prodi = prodi;
66
67
68
69
70
             //getter nama
71
             public String getNama() {
                  return this.nama;
72
73
74
        //getter prodi
75 -
        public Prodi getProdi() {
           return this.prodi;
76
77
78
79
        //implementasi display mahasiswa
80
81 -
        void displayMahasiswa() {
            System.out.print("Nama : "+ this.getNama());
82
            System.out.print("Prodi : "+ this.getProdi().toString());
83
84
85
86
```

## Output

```
--- resources:3.3.1:resources (default-resources) @ TPmod3 ---
skip non existing resourceDirectory D:\PBO\TPMOD3\TPmod3\src\main\resources

--- compiler:3.11.0:compile (default-compile) @ TPmod3 ---
Changes detected - recompiling the module! :source
Compiling 1 source file with javac [debug target 22] to target\classes

--- exec:3.1.0:exec (default-cli) @ TPmod3 ---
Nama : Heristam YuniawanProdi : Informatika
Nama : Nugroho RahmantoProdi : Rekayasa Perangkat lunak

BUILD SUCCESS
```

Total time: 1.619 s

Finished at: 2024-09-29T20:04:50+07:00