

Laporan UTS Praktikum PBO

1. Abstract Class

a. Person

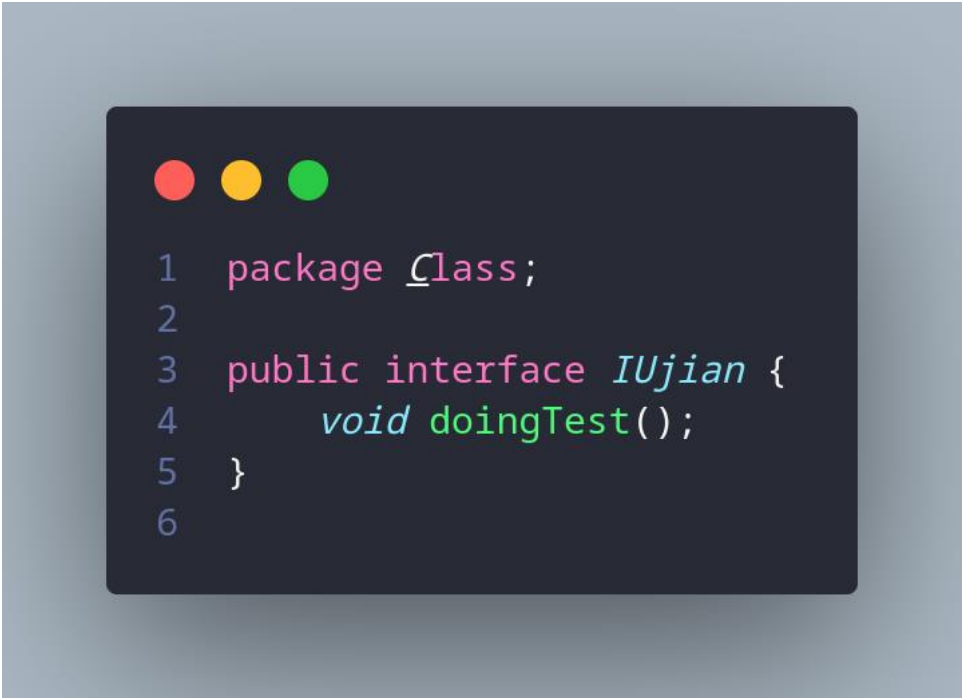
```
1 package abstract;
2 public abstract class Person{
3     protected String name;
4     protected int age;
5     protected String tgllahir;
6
7     public Person(String name, int age, String tgllahir) {
8         this.name = name;
9         this.age = age;
10        this.tgllahir = tgllahir;
11    }
12
13    public abstract void dataDiri();
14 }
15
```

b. University

```
1 package abstract;
2
3 public abstract class University {
4     protected String lokasi;
5
6     public University(String lokasi) {
7         this.lokasi = lokasi;
8     }
9     public abstract void getInfo();
10 }
11
```

2. Interface

a. Interface Ujian



```
1 package Class;  
2  
3 public interface IUjian {  
4     void doingTest();  
5 }  
6
```

3. Class

a. Univ

```
1 package Class;
2
3 import abstract.University;
4
5 public class Univ extends University {
6     private String name, tipe = "Universitas";
7     private double minNilai;
8
9     public Univ(String name, String lokasi, double minNilai) {
10         super(lokasi);
11         this.name = name;
12         this.minNilai = minNilai;
13     }
14
15     public String getName() {
16         return name;
17     }
18
19     public String getTipe() {
20         return tipe;
21     }
22
23     public double getMinNilai() {
24         return minNilai;
25     }
26
27     public void setMinNilai(double minNilai) {
28         this.minNilai = minNilai;
29     }
30
31     @Override
32     public void getInfo() {
33         System.out.println("Nama Kampus\t\t" + name);
34         System.out.println("Tipe Kampus\t\t" + tipe);
35         System.out.println("Lokasi Kampus\t\t" + lokasi);
36     }
37 }
```

b. Vokasi

```
1 package Class;
2
3 import abstract.University;
4
5 public class Vokasi extends University {
6     private String name, tipe = "Vokasi";
7     private double minNilai;
8
9
10    public Vokasi(String name, String lokasi, double minNilai) {
11        super(lokasi);
12        this.name = name;
13        this.minNilai = minNilai;
14    }
15
16    public String getName() {
17        return name;
18    }
19
20    public String getTipe() {
21        return tipe;
22    }
23
24    public double getMinNilai() {
25        return minNilai;
26    }
27
28    public void setMinNilai(double minNilai) {
29        this.minNilai = minNilai;
30    }
31
32    @Override
33    public void getInfo() {
34        System.out.println("Nama Kampus\t\t" + name);
35        System.out.println("Tipe Kampus\t\t" + tipe);
36        System.out.println("Lokasi Kampus\t\t" + lokasi);
37    }
38 }
39
```

c. UjianUniv

```
1 package Class;
2
3 public class UjianUniv implements IUjian {
4     Siswa camaba;
5     Univ univ;
6     String tipeUjian;
7
8
9     public UjianUniv(Siswa camaba, Univ univ, String tipeUjian) {
10         this.camaba = camaba;
11         this.univ = univ;
12         this.tipeUjian = tipeUjian;
13     }
14
15     @Override
16     public void doingTest() {
17         if (this.camaba.getNilai() >= univ.getMinNilai()){
18             System.out.println("-----");
19             System.out.println("\t\t\tSELAMAT ANDA LULUS");
20             System.out.println("-----");
21             camaba.dataDiri();
22             System.out.println("Kampus Tujuan\t: " + univ.getName());
23             System.out.println("Tipe Ujian\t\t: " + tipeUjian);
24             System.out.println("-----");
25         } else{
26             System.out.println("-----");
27             System.out.println("\t\t\tMAAF ANDA TIDAK LULUS");
28             System.out.println("-----");
29             camaba.dataDiri();
30             System.out.println("Kampus Tujuan\t: " + univ.getName());
31             System.out.println("Tipe Ujian\t\t: " + tipeUjian);
32             System.out.println("-----");
33         }
34         System.out.println();
35     }
36 }
37 }
```

d. UjianVokasi

```
1  package Class;
2
3  public class UjianVokasi implements IUjian {
4      Siswa camaba;
5      Vokasi vokasi;
6      String tipeUjian;
7
8      public UjianVokasi(Siswa camaba, Vokasi vokasi, String tipeUjian) {
9          this.camaba = camaba;
10         this.vokasi = vokasi;
11         this.tipeUjian = tipeUjian;
12     }
13
14     @Override
15     public void doingTest() {
16         if (this.camaba.getNilai() >= vokasi.getMinNilai()) {
17             System.out.println("-----");
18             System.out.println("\t\t\tSELAMAT ANDA LULUS");
19             System.out.println("-----");
20             camaba.dataDiri();
21             System.out.println("Kampus Tujuan\t: " + vokasi.getName());
22             System.out.println("Tipe Ujian\t\t: " + tipeUjian);
23             System.out.println("-----");
24         } else {
25             System.out.println("-----");
26             System.out.println("\t\t\tMAAF ANDA TIDAK LULUS");
27             System.out.println("-----");
28             camaba.dataDiri();
29             System.out.println("Kampus Tujuan\t: " + vokasi.getName());
30             System.out.println("Tipe Ujian\t\t: " + tipeUjian);
31             System.out.println("-----");
32         }
33         System.out.println();
34     }
35 }
```

4. Running

a. Main

```
1 package Class;
2
3 public class Main {
4     public static void main(String[] args) {
5         Siswa budi = new Siswa("Budi", 18, "16 September 2003", 90);
6         Siswa toni = new Siswa("Toni", 18, "23 November 2003", 70);
7
8         Univ ui = new Univ("Universitas Indonesia", "Jakarta", 80);
9         Vokasi polinema = new Vokasi("Politeknik Negeri Malang", "Malang", 90);
10
11         UjianVokasi budiToPolinema = new UjianVokasi(budi, polinema, "Komputer");
12         UjianUniv toniToUi = new UjianUniv(toni, ui, "Tulis");
13
14         budiToPolinema.doingTest();
15         toniToUi.doingTest();
16     }
17 }
```

b. Hasil

```
/usr/lib/jvm/java-20-jdk/bin/java -javaagent:/usr/share/idea/lib/idea_rt.jar=43295:/usr/share/idea/bin -Df
-----
                SELAMAT ANDA LULUS
-----
Nama           : Budi
Tanggal Lahir  : 16 September 2003
Umur           : 18
Nilai          : 90.0
Kampus Tujuan : Politeknik Negeri Malang
Tipe Ujian     : Komputer
-----

                MAAF ANDA TIDAK LULUS
-----
Nama           : Toni
Tanggal Lahir  : 23 November 2003
Umur           : 18
Nilai          : 70.0
Kampus Tujuan : Universitas Indonesia
Tipe Ujian     : Tulis
-----
```