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Source Code

<https://github.com/falmesino/pbo-praktikum-inheritance>

praktikum-inheritance

perobaan-1 > J Bentuk.java

```
1 public class Bentuk {
2     protected int p, l;
3 }
```

perobaan-1 > J Persegi.java

```
1 public class Persegi extends Bentuk {
2     protected int p, l;
3
4     public void setSuperP(int p) {
5         super.p = p;
6     }
7
8     public void setSuperL(int l) {
9         super.l = l;
10    }
11
12    public void setP(int p) {
13        this.p = p;
14    }
15
16    public void setL(int l) {
17        this.l = l;
18    }
19
20    public void getLuas() {
21        System.out.println("Luas super: " + (super.p * super.l));
22        System.out.println("Luas: " + (this.p * this.l));
23    }
24 }
```

perobaan-1 > J Main.java

```
1 public class Main {
2     public static void main (String[] args) {
3         Persegi kotak = new Persegi();
4
5         kotak.setSuperP(5);
6         kotak.setSuperL(10);
7
8         kotak.setP(3);
9         kotak.setL(13);
10
11        kotak.getLuas();
12    }
13 }
```

EXPLOLER

PRAKTIKUM-INHERITANCE

perobaan-1

Bentuk.class

Bentuk.java

Main.class

Main.java

Persegi.class

Persegi.java

OUTLINE

JAVA PROJECTS

PORTS

DEBUG CONSOLE

TIMELINE

TERMINAL

zsh - perobaan-1

```
→ praktikum-inheritance cd perobaan-1
→ perobaan-1 javac Main.java
→ perobaan-1 java Main
Luas super: 50
Luas: 39
→ perobaan-1
```

Ln 11, Col 21

Spaces: 2

UTF-8

LF

Java

Colorize

Colorize: 0 variables

Prettier

praktikum-inheritance

🔍

🔍

🔗

🔧

📁

⚠️

📄

EXPLORER

📁 PRAKTIKUM-INHERITANCE

📁 > percobaan-1

📁 > percobaan-2

📄 J Main.class

📄 J Main.java

📄 J Person.class

📄 J Person.java

📄 J Student.class

📄 J Student.java

📁 > percobaan-3

📁 > percobaan-4

📄 > OUTLINE

📄 > JAVA PROJECTS

📄 J Main.java

percobaan-2 > J Main.java

1 public class Main {

2 public static void main(String[] args) {

3 Student Jiem = new Student();

4 }

5 }

📄 J Person.java

percobaan-2 > J Person.java

1 public class Person {

2 protected String name;

3 protected String address;

4 }

5 public Person() {

6 System.out.println("Inside Person:Constructor");

7 name = "";

8 address = "";

9 }

10

11 public Person(String name, String address) {

12 this.name = name;

13 this.address = address;

14 }

15

16 public String getName() {

17 return name;

18 }

19

20 public String getAddress() {

21 return address;

22 }

23

24 public void setName(String name) {

25 this.name = name;

26 }

27

28 public void setAddress(String address) {

29 this.address = address;

30 }

31 }

📄 J Student.java

percobaan-2 > J Student.java

1 public class Student extends Person {

2 public Student() {

3 // super("Ini Nama", "Ini Alamat");

4 super();

5 // super.name = "Ini Nama";

6 System.out.println("Inside Student:Constructor");

7 }

8 }

PORTS

DEBUG CONSOLE

TIMELINE

TERMINAL

zsh - percobaan-2

➔ percobaan-2 ls -la

total 48

drwxr-xr-x 8 falmesino staff 256 Jan 27 05:26 .

drwxr-xr-x 6 falmesino staff 192 Jan 27 05:10 ..

-rw-r--r-- 1 falmesino staff 283 Jan 27 05:29 Main.class

-rw-r--r-- 1 falmesino staff 102 Jan 27 05:05 Main.java

-rw-r--r-- 1 falmesino staff 822 Jan 27 05:29 Person.class

-rw-r--r-- 1 falmesino staff 535 Jan 27 05:28 Person.java

-rw-r--r-- 1 falmesino staff 433 Jan 27 05:29 Student.class

-rw-r--r-- 1 falmesino staff 203 Jan 27 05:30 Student.java

➔ percobaan-2 javac Main.java

➔ percobaan-2 java Main

Inside Person:Constructor

Inside Student:Constructor

➔ percobaan-2

Ln 4, Col 5

Spaces: 2

UTF-8

LF

Java

Colorize

Colorize: 0 variables

Prettier

praktikum-inheritance

EXPLORER

PRAKTIKUM-INHERITANCE

percobaan-1

percobaan-2

percobaan-3

ClassA.class

ClassA.java

ClassB.java

Main.class

Main.java

percobaan-4

OUTLINE

JAVA PROJECTS

perobaan-3 > ClassA.java

```
1 public class ClassA {
2     private int x;
3     private int y;
4
5     public void setX(int x) {
6         this.x = x;
7     }
8
9     public void setY(int y) {
10        this.y = y;
11    }
12
13    public void getNilai() {
14        System.out.println("Nilai X: " + this.x + ", Nilai Y: "
15                           + this.y);
16    }
17 }
```

perobaan-3 > ClassB.java

```
1 public class ClassB extends ClassA {
2     private int z;
3
4     public void getJumlah() {
5         System.out.println("Jumlah: " + (x + y + z));
6     }
7
8     public void setZ(int z) {
9         this.z = z;
10    }
11 }
```

perobaan-3 > Main.java

```
1 public class Main {
2     public static void main(String[] args) {
3         ClassA ortu = new ClassA();
4         ClassB anak = new ClassB();
5
6         System.out.println("superclass");
7
8         ortu.setX(10);
9         ortu.setY(20);
10        ortu.getNilai();
11
12        System.out.println("sub class");
13
14        anak.setX(5);
15        anak.setY(4);
16        anak.getNilai();
17        anak.setZ(50);
18        anak.getJumlah();
19    }
20 }
```

zsh - percobaan-3

```
➤ percobaan-3 javac Main.java
./ClassB.java:5: error: x has private access in ClassA
    System.out.println("Jumlah: " + (x + y + z));
                                   ^
./ClassB.java:5: error: y has private access in ClassA
    System.out.println("Jumlah: " + (x + y + z));
                                   ^
2 errors
➤ percobaan-3
```

Ln 11, Col 2

Spaces: 2

UTF-8

LF

Java

Colorize

Colorize: 0 variables

Prettier

praktikum-inheritance

EXPLORER

PRAKTIKUM-INHERITANCE

percobaan-1

percobaan-2

percobaan-3

ClassA.class

ClassA.java

ClassB.class

ClassB.java

Main.class

Main.java

percobaan-4

OUTLINE

JAVA PROJECTS

ClassA.java

percobaan-3 > ClassA.java

```
1 public class ClassA {
2     private int x;
3     private int y;
4
5     public void setX(int x) {
6         this.x = x;
7     }
8
9     public void setY(int y) {
10        this.y = y;
11    }
12
13    // Ditambahkan getter supaya bisa akses variabelnya.
14    public int getX() {
15        return this.x;
16    }
17
18    public int getY() {
19        return this.y;
20    }
21
22    public void getNilai() {
23        System.out.println("Nilai X: " + this.x + ", Nilai Y: "
24        + this.y);
25    }
26 }
```

ClassB.java

percobaan-3 > ClassB.java

```
1 public class ClassB extends ClassA {
2     private int z;
3
4     public void getJumlah() {
5         // Pakai getter buat x dan y supaya keambil nilainya
6         System.out.println("Jumlah: " + (super.getX() + super.
7         getY() + z));
8     }
9
10    public void setZ(int z) {
11        this.z = z;
12    }
13 }
```

Main.java

percobaan-3 > Main.java

```
1 public class Main {
2     public static void main(String[] args) {
3         ClassA ortu = new ClassA();
4         ClassB anak = new ClassB();
5
6         System.out.println("superclass");
7
8         ortu.setX(10);
9         ortu.setY(20);
10        ortu.getNilai();
11
12        System.out.println("sub class");
13
14        anak.setX(5);
15        anak.setY(4);
16        anak.getNilai();
17        anak.setZ(50);
18        anak.getJumlah();
19    }
20 }
```

TERMINAL

zsh - percobaan-3

```
➔ percobaan-3 ls -la
total 48
drwxr-xr-x  8 falmesino  staff   256 Jan 27 05:12 .
drwxr-xr-x  6 falmesino  staff   192 Jan 27 05:10 ..
-rw-r--r--  1 falmesino  staff  1113 Jan 27 05:12 ClassA.class
-rw-r--r--  1 falmesino  staff   350 Jan 27 05:12 ClassA.java
-rw-r--r--  1 falmesino  staff   953 Jan 27 05:13 ClassB.class
-rw-r--r--  1 falmesino  staff   266 Jan 27 05:13 ClassB.java
-rw-r--r--  1 falmesino  staff   685 Jan 27 05:13 Main.class
-rw-r--r--  1 falmesino  staff   368 Jan 27 05:09 Main.java

➔ percobaan-3 java Main
superclass
Nilai X: 10, Nilai Y: 20
sub class
Nilai X: 5, Nilai Y: 4
Jumlah: 59

➔ percobaan-3
```

Ln 5, Col 57

Spaces: 2

UTF-8

LF

Java

Colorize

Colorize: 0 variables

Prettier

praktikum-inheritance

EXPLORER

PRAKTIKUM-INHERITANCE

percobaan-1

percobaan-2

percobaan-3

percobaan-4

Child.class

Child.java

Parent.class

Parent.java

OUTLINE

JAVA PROJECTS

PORTS

DEBUG CONSOLE

TIMELINE

TERMINAL

zsh - percobaan-4

→ percobaan-4 javac Child.java

Child.java:6: error: call to super must be first statement in constructor

super();

^

1 error

→ percobaan-4

Parent.java

percobaan-4 > Parent.java

1 public class Parent {

2

3 }

Child.java

percobaan-4 > Child.java

1 public class Child extends Parent {

2 int x;

3

4 public Child() {

5 x = 5;

6 super();

7 }

8 }

Ln 8, Col 2

Spaces: 2

UTF-8

LF

Java

Colorize

Colorize: 0 variables

Prettier

praktikum-inheritance

Parent.java

Child.java

EXPLOLER

PRAKTIKUM-INHERITANCE

percobaan-1

percobaan-2

percobaan-3

percobaan-4

Child.class

Child.java

Parent.class

Parent.java

OUTLINE

JAVA PROJECTS

TERMINAL

zsh - percobaan-4

→ percobaan-4 javac Child.java

Child.java:6: error: call to super must be first statement in constructor

super();

^

1 error

→ percobaan-4 javac Child.java

→ percobaan-4

Parent.java

percobaan-4 > Parent.java

1 public class Parent {

2

3 }

Child.java

percobaan-4 > Child.java

1 public class Child extends Parent {

2 int x;

3

4 public Child() {

5 super(); //Dipindah paling atas, karena super() harus di paling atas

6 x = 5;

7 }

8 }

Ln 4, Col 19 (74 selected)

Spaces: 2

UTF-8

LF

Java

Colorize

Colorize: 0 variables

Prettier