

**LAPORAN PRAKTIKUM
PEMROGRAMAN BERORIENTASI OBJEK**

(Dosen Pengampu: *Dede Husen, M.Kom*)



NAMA : MUHAMMAD RIZAL NURFIRDAUS

NIM : 20230810088

KELAS : TINFC-2023-04

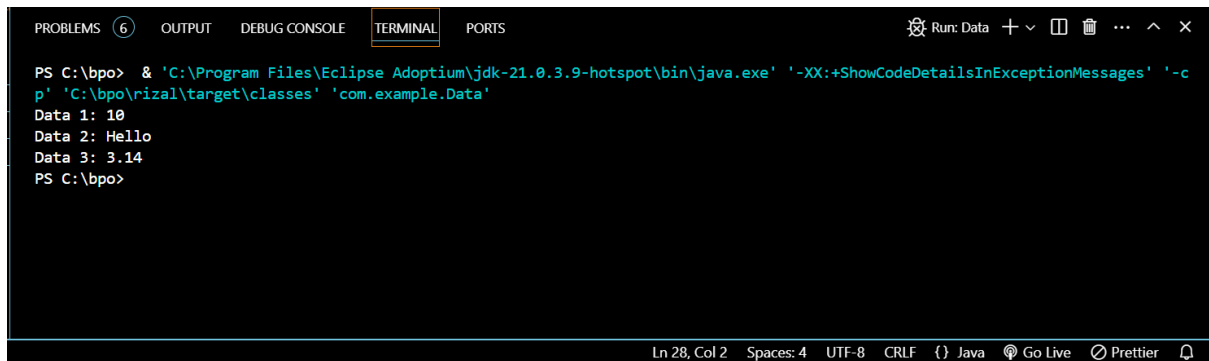
**TEKNIK INFORMATIKA
FAKULTAS ILMU KOMPUTER
UNIVERSITAS KUNINGAN**

2023

PRETEST

1. Buatlah program konstruktor dari 3 data!

```
public class Data {  
    private int data1;  
    private String data2;  
    private double data3;  
  
    // Konstruktor untuk menginisialisasi tiga data  
    public Data(int data1, String data2, double data3) {  
        this.data1 = data1;  
        this.data2 = data2;  
        this.data3 = data3;  
    }  
  
    // Metode untuk menampilkan data  
    public void displayData() {  
        System.out.println("Data 1: " + data1);  
        System.out.println("Data 2: " + data2);  
        System.out.println("Data 3: " + data3);  
    }  
  
    public static void main(String[] args) {  
        // Membuat objek Data dengan konstruktor  
        Data obj = new Data(10, "Hello", 3.14);  
        // Menampilkan data  
        obj.displayData();  
    }  
}
```



The screenshot shows the Eclipse IDE's integrated terminal. The terminal has tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL (which is active), and PORTS. The command prompt shows a PowerShell session where a Java command is executed. The output of the command is displayed in the terminal window.

```
PS C:\bpo> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.3.9-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\bpo\rizal\target\classes' 'com.example.Data'
Data 1: 10
Data 2: Hello
Data 3: 3.14
PS C:\bpo>
```

At the bottom of the terminal window, the status bar shows: Ln 28, Col 2 Spaces: 4 UTF-8 CRLF {} Java Go Live Prettier.

PRAKTIKUM1

```
package com.example;
```

```
public class Konstruktor {

    String data,data2;

    public Konstruktor(String data,String data2)

    {

        this.data=data;

        this.data2=data2;

    }

    void cetakConst()

    {

        System.out.printf("%s %s",this.data,this.data2);

        System.out.println(" ");

    }

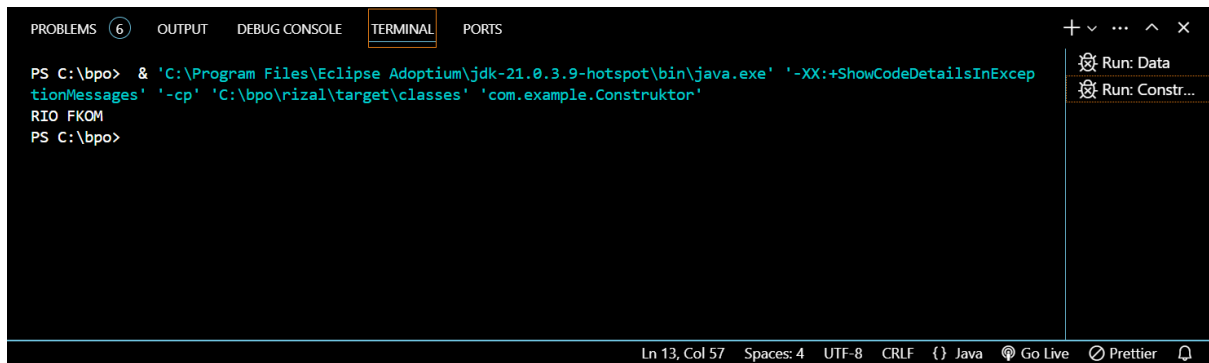
    public static void main(String[] fian) {

        Konstruktor a = new Konstruktor("RIO", "FKOM");

        a.cetakConst();

    }
```

```
}
```



PRAKTIKUM2

```
package com.example;
```

```
public class Buku {
```

```
    String pengarang, judul;
```

```
    Buku()
```

```
    {
```

```
        this.pengarang = "Benny Hermawan";
```

```
        this.judul= "Mengusai Java 2 dan OOP";
```

```
    }
```

```
    Buku (String pengarang, String judul)
```

```
    {
```

```
        this.pengarang = pengarang;
```

```
        this.judul= judul;
```

```
    }
```

```
    void cetakKeLayar()
```

```
    {
```

```
        if(judul==null && pengarang ==null)
```

```
            return;
```

```

        System.out.println("Judul : "+judul+",pengarang : "+pengarang);
    }
}

package com.example;

public class DemoBuku {

    public static void main(String[] args) {

        Buku a= new Buku ("Pintar Java", " Magezine Sukses");

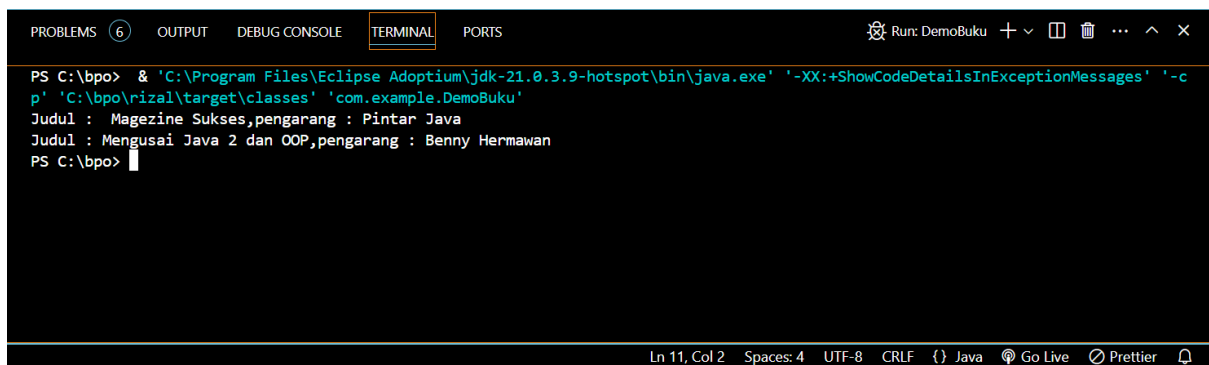
        Buku b = new Buku();

        a.cetakKeLayar();

        b.cetakKeLayar();

    }
}

```



```

PROBLEMS 6 OUTPUT DEBUG CONSOLE TERMINAL PORTS
Run: DemoBuku + - [ ] [ ] ... ^ x
PS C:\bpo> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.3.9-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-c
p' 'C:\bpo\rizal\target\classes' 'com.example.DemoBuku'
Judul : Magezine Sukses,pengarang : Pintar Java
Judul : Mengusai Java 2 dan OOP,pengarang : Benny Hermawan
PS C:\bpo>
Ln 11, Col 2 Spaces: 4 UTF-8 CRLF {} Java Go Live Prettier

```

PRAKTIKUM3

```

package com.example;

public class Mahasiswa {

    String nama;

    String jengkel;

```

```

void setNilai (String nama){

    this.nama = nama;

}

void setNilai( String nama, String jengkel){

    this.nama = nama;

    this.jengkel = jengkel;

}

void cetak(){

    System.out.println(this.nama+ " adalah " +this.jengkel);

}

}

class DemoMahasiswa{

    public static void main(String[] args) {

        Mahasiswa m1,m2;

        m1 = new Mahasiswa();

        m2 = new Mahasiswa();

        m1.setNilai("Anggi");

        m2.setNilai("Anggi", "Laki-Laki");

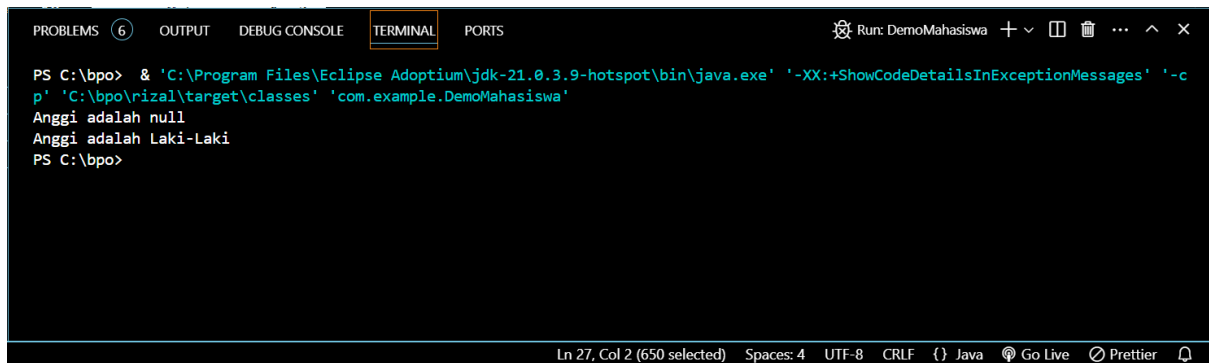
        m1.cetak();

        m2.cetak();

    }

}

```



The screenshot shows the Eclipse IDE's terminal window. The terminal title bar indicates it is running 'DemoMahasiswa'. The command entered is: `PS C:\bpo> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.3.9-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\bpo\rizal\target\classes' 'com.example.DemoMahasiswa'`. The output shows two lines of text: `Anggi adalah null` and `Anggi adalah Laki-Laki`. The terminal status bar at the bottom shows 'Ln 27, Col 2 (650 selected)', 'Spaces: 4', 'UTF-8', 'CRLF', and icons for Java, Go Live, and Prettier.

```
PS C:\bpo> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.3.9-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\bpo\rizal\target\classes' 'com.example.DemoMahasiswa'
Anggi adalah null
Anggi adalah Laki-Laki
PS C:\bpo>
```

PRAKTIKUM4

```
package com.example;
```

```
public class teman {

    public String nama;

    public int pacar=0, mantan=0;

    public teman(String nm){

        nama=nm;

    }

    public teman(String nm, int pac){

        nama=nm;

        pacar=pac;

    }

    public teman(String nm, int pac, int man){

        nama=nm;

        pacar=pac;

        mantan=man;

    }

    public void cetak(){

        System.out.println("nama : "+nama);
```

```

        System.out.println("pacar  : "+pacar);

        System.out.println("mantan  : "+mantan);

    }

}

package com.example;

public class Overload {

    public static void main(String[] args) {

        teman baru= new teman("wildan");

        System.out.println("pada konstruktor 1 : ");

        baru.cetak();

        teman lama=new teman("Syandu", 100);

        System.out.println("pada konstruktor 2 : ");

        lama.cetak();

        teman cantik=new teman("tania", 100, 10);

        System.out.println("pada konstruktor 3 : ");

        cantik.cetak();

    }

}

```

```

p' 'C:\bpo\rizal\target\classes' 'com.example.Overload'
pada konstruktor 1 :
nama   : wildan
pacar  : 0
mantan : 0
pada konstruktor 2 :
nama   : Syandu
pacar  : 100
mantan : 0
pada konstruktor 3 :
nama   : tania
pacar  : 100
mantan : 10

```


POSTTEST

1. Buatlah program Konstruktor dengan case studi yang berbeda dari praktikum diatas.

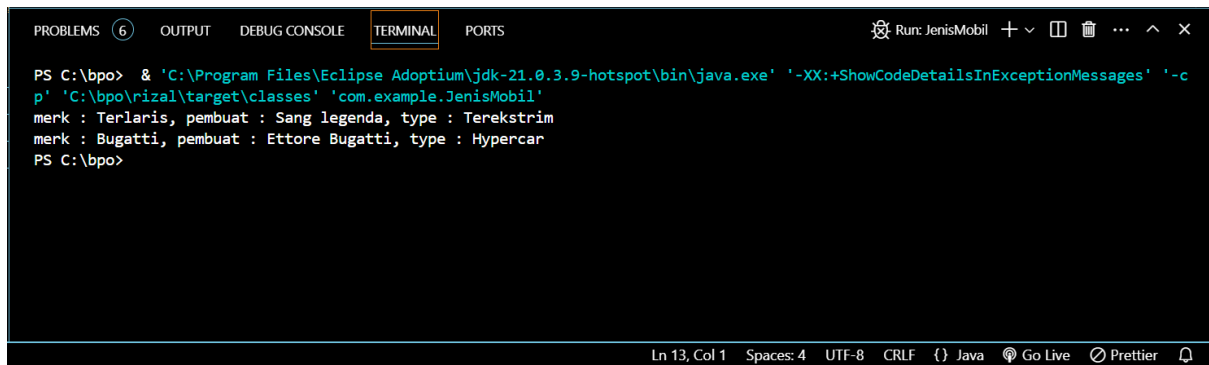
```
package com.example;
```

```
public class Mobil {  
    public String pembuat, merk, type;  
    Mobil()  
    {  
        this.pembuat="Ettore Bugatti";  
        this.merk="Bugatti";  
        this.type="Hypercar";  
    }  
    Mobil (String pembuat, String merk, String type)  
    {  
        this.pembuat=pembuat;  
        this.merk=merk;  
        this.type=type;  
    }  
    void cetakKeLayar()  
    {  
        if(merk==null && pembuat==null && type==null)  
            return;  
        System.out.println("merk : "+merk+", pembuat : "+pembuat+", type : "+type);  
    }  
}
```

```
package com.example;
```

```
public class JenisMobil {  
    public static void main(String[] args) {  
        Mobil a=new Mobil("Sang legenda","Terlaris","Terekstrim");  
        Mobil b=new Mobil();  
  
        a.cetakKeLayar();  
        b.cetakKeLayar();  
    }  
}
```

```
}
}
```



```
PS C:\bpo> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.3.9-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-c
p' 'C:\bpo\rizal\target\classes' 'com.example.JenisMobil'
merk : Terlaris, pembuat : Sang legenda, type : Terekstrim
merk : Bugatti, pembuat : Ettore Bugatti, type : Hypercar
PS C:\bpo>
```

TUGAS INDIVIDU UNTUK MINGGU DEPAN

1. Buatlah Program Konstruktor Multiple dan Overloading dengan case studi yang berbeda dari praktikum diatas.

package com.example;

```
public class Motor {
    public String Motor, Warna;
    public int Kecepatan=0;
    public Motor(String Mt){
        Motor=Mt;
    }
    public Motor(String Mt,String Wn){
        Motor=Mt;
        Warna=Wn;
    }
    public Motor(String Mt, String Wn, int Kpn){
        Motor=Mt;
        Warna=Wn;
        Kecepatan=Kpn;
    }
    public void cetak(){
        System.out.println("Motor : "+Motor);
        System.out.println("Warna : "+Warna);
        System.out.println("Kecepatan : "+Kecepatan);
    }
}
```

```
}  
}
```

```
package com.example;
```

```
public class Overloading {  
    public static void main(String[] args) {  
        Motor baru= new Motor("ZX25R","Hitam",250);  
        System.out.println("pada konstruktor 1 : ");  
        baru.cetak();  
        Motor lama=new Motor("Ducatti Panigale V4 R", "Merah", 1000);  
        System.out.println("pada konstruktor 2 : ");  
        lama.cetak();  
        Motor cantik=new Motor("CBR500R","Biru", 500);  
        System.out.println("pada konstruktor 3 : ");  
        cantik.cetak();  
    }  
}
```



```
p' 'C:\bpo\rizal\target\classes' 'com.example.Overloading'  
pada konstruktor 1 :  
Motor   : ZX25R  
Warna   : Hitam  
Kecepatan : 250  
pada konstruktor 2 :  
Motor   : Ducatti Panigale V4 R  
Warna   : Merah  
Kecepatan : 1000  
pada konstruktor 3 :  
Motor   : CBR500R  
Warna   : Biru  
Kecepatan : 500
```