

LAPORAN PRAKTIKUM
PEMROGRAMAN BERORIENTASI OBJEK

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PRETEST

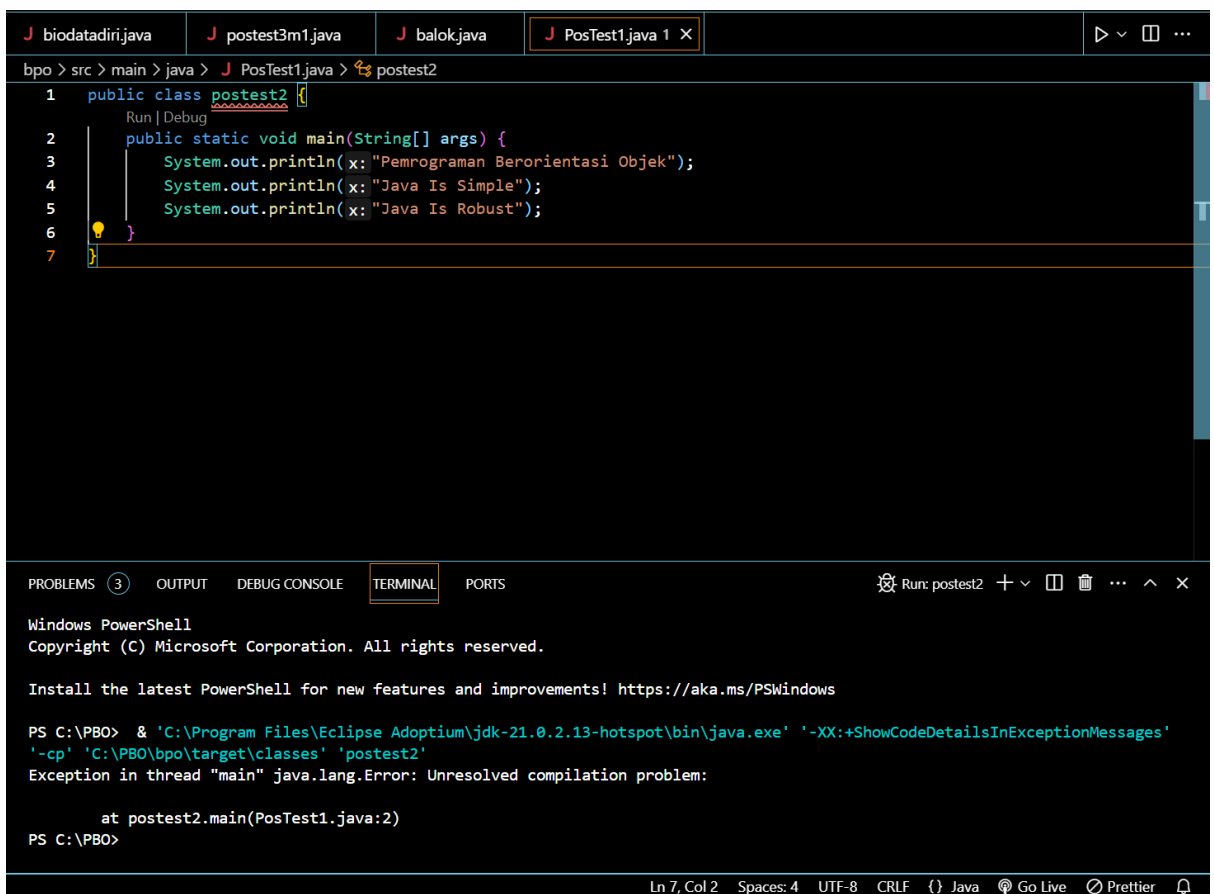
1. Tuliskan Struktur Program Java!

- Deklarasi paket (Opsional)
- Import statement (Opsional)
- Deklarasi kelas utama
- Deklarasi atribut (Variabel kelas)
- Konstruktor (Opsional)
- Metode-metode (Fungsi) lainnya
- Metode utama (Entry point program)

POSTTEST

1. Perhatikan Sorce Code Praktikum1 diatas, Lakukan Percobaan Berikut :

- a. Line 11 → Rubahlah public class PostTest1 menjadi public class PostTest12. Amati hasilnya dan Jelaskan!



```
1 public class posttest2 {
2     public static void main(String[] args) {
3         System.out.println(x: "Pemrograman Berorientasi Objek");
4         System.out.println(x: "Java Is Simple");
5         System.out.println(x: "Java Is Robust");
6     }
7 }
```

PROBLEMS (3) OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

PS C:\PBO> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.2.13-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\PBO\bpo\target\classes' 'posttest2'

Exception in thread "main" java.lang.Error: Unresolved compilation problem:

at posttest2.main(PosTest1.java:2)

PS C:\PBO>

Ln 7, Col 2 Spaces: 4 UTF-8 CRLF () Java Go Live Prettier

Terjadi kesalahan karena perbedaan nama antara proyek dan public class yang menyebabkan error pada proyek.

b. Line 14 → Hilangkan tanda * pada line tersebut. Amati dan Jelaskan!

```
1 public class posttest3m1 {
2     public static void main(String[] args) {
3         /*Program JAVA PBO Pertamaku /
4         System.out.println(x: "Pemrograman Berorientasi Objek");
5         System.out.println(x: "Java Is Simple");
6         System.out.println(x: "Java Is Robust");
7     }
8 }
```

PROBLEMS (8) OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\PBO> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.2.13-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\PBO\bpo\target\classes' 'posttest3m1'

Exception in thread "main" java.lang.Error: Unresolved compilation problems:

- Syntax error on token "/", @ expected
- Program cannot be resolved to a type
- JAVA cannot be resolved to a type
- Syntax error on token "PBO", = expected after this token
- Pertamaku cannot be resolved to a variable

at posttest3m1.main(PosTest1.java:3)

PS C:\PBO>

Menghapus tanda bintang (*) dari komentar tersebut tidak akan memengaruhi cara kompilasi atau eksekusi program Java. Ini hanya akan membuat komentar menjadi komentar satu baris biasa.

2. Buatlah file java baru pada file project diatas, yang menampilkan Biodata diri (NIM, Nama, Kelas, Prodi, Alamat, Email, No Hp)

```
package com.rizal;
public class biodatadiri {
    public static void main(String[] args)
    {
        String NIM,nama,kelas,prodi,alamat,email,nohp;
        NIM = "20230810088";
        nama = "Muhammad Rizal Nurfirdaus";
        kelas = "TINFC-2023-04";
        prodi = "Teknik Informatika";
        alamat = "Sidaraja";
        email = "muhammadrizalnurfirdaus@gmail.com";
    }
}
```

```

        nohp = "083101461069";
        System.out.println("NIM = "+NIM);
        System.out.println("Nama = "+nama);
        System.out.println("Kelas = "+kelas);
        System.out.println("Prodi = "+prodi);
        System.out.println("Alamat = "+alamat);
        System.out.println("Email = "+email);
        System.out.println("NoHp = "+nohp);
    }
}

```

The screenshot shows an IDE window with a tab for `biodatadiri.java`. The source code is as follows:

```

1 package com.rizal;
2 public class biodatadiri {
3     public static void main(String[] args)
4     {
5         String NIM,nama,kelas,prodi,alamat,email,nohp;
6         NIM = "20230810088";
7         nama = "Muhammad Rizal Nurfirdaus";
8         kelas = "TINFC-2023-04";
9         prodi = "Teknik Informatika";
10        alamat = "Sidaraja";
11        email = "muhammadrizalnurfirdaus@gmail.com";
12        nohp = "083101461069";
13        System.out.println("NIM = "+NIM);
14        System.out.println("Nama = "+nama);
15        System.out.println("Kelas = "+kelas);
16        System.out.println("Prodi = "+prodi);
17        System.out.println("Alamat = "+alamat);
18        System.out.println("Email = "+email);
19        System.out.println("NoHp = "+nohp);
20    }
21 }

```

The terminal output shows the execution of the program:

```

PS C:\PBO> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.2.13-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages'
'-cp' 'C:\PBO\bpo\target\classes' 'com.rizal.biodatadiri'
NIM = 20230810088
Nama = Muhammad Rizal Nurfirdaus
Kelas = TINFC-2023-04
Prodi = Teknik Informatika
Alamat = Sidaraja
Email = muhammadrizalnurfirdaus@gmail.com
NoHp = 083101461069
PS C:\PBO>

```

3. Perbaiki Program Praktikum2, sehingga menampilkan hasil program sebagai berikut :

```

package com.rizal;

public class postest3m1 {
    public static void main(String[] args)
    {
        int a,b,c,d;
        a=5;
        b=3;
        c=6;
    }
}

```

```

d=a+b;
System.out.println("Nilai c =" + c);
System.out.println("Nilai a + b = 5+3 =" + d);
}
}

```

The screenshot shows the Eclipse IDE with a project named 'biodatadirir.java'. The file 'posttest3m1.java' is open, showing the following code:

```

1 package com.rizal;
2
3 public class posttest3m1 {
4     public static void main(String[] args)
5     {
6         int a,b,c,d;
7         a=5;
8         b=3;
9         c=6;
10        d=a+b;
11        System.out.println("Nilai c =" + c);
12        System.out.println("Nilai a + b = 5+3 =" + d);
13    }
14 }
15

```

The terminal output shows the execution of the program:

```

PS C:\PBO> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.2.13-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages'
'-cp' 'C:\PBO\bpo\target\classes' 'com.rizal.posttest3m1'
Nilai c = 6
Nilai a + b = 5+3 =8
PS C:\PBO>

```

TUGAS INDIVIDU UNTUK MINGGU DEPAN

1. Buatlah program untuk menghitung volume, luas, dan keliling balok.!

```

package com.rizal;

public class balok {
    public static void main(String[] args) {
        double panjang = 10;
        double lebar = 5;
        double tinggi = 5;

        double volume = panjang * lebar * tinggi;
        double luasPermukaan = 2 * ((panjang * lebar) + (panjang * tinggi)
+ (lebar * tinggi));
        double keliling = 4 * (panjang + lebar + tinggi);
    }
}

```

```

        System.out.println("Volume balok: " + volume);
        System.out.println("Luas permukaan balok: " + luasPermukaan);
        System.out.println("Keliling balok: " + keliling);
    }
}

```

The screenshot shows the Eclipse IDE with the following components:

- Editor:** Displays the Java code for the `balok` class. The code calculates the volume, surface area, and perimeter of a rectangular prism with dimensions `panjang = 10`, `lebar = 5`, and `tinggi = 5`. The output is:


```

Volume balok: 250.0
Luas permukaan balok: 250.0
Keliling balok: 80.0
      
```
- Terminal:** Shows the command used to run the program:


```

PS C:\PBO> & 'C:\Program Files\Eclipse Adoptium\jdk-21.0.2.13-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\PBO\bpo\target\classes' 'com.rizal.balok'
      
```

 The output of the command is:


```

Volume balok: 250.0
Luas permukaan balok: 250.0
Keliling balok: 80.0
PS C:\PBO>
      
```