Mata Kuliah: PBO – TI – S1

Pertemuan: 3

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# Hasil Program Matematika:

```
D: > A Nila > sem4 > pbo > pertemuan3 > 🔳 MatematikaDemo.java > ધ MatematikaDe
       public class MatematikaDemo {
           Run | Debug
           public static void main(String[] args) {
               Matematika matematika = new Matematika();
               // Operasi bilangan bulat
               matematika.pertambahan(x:20, y:20);
  6
               matematika.pengurangan(x:10, y:5);
               matematika.perkalian(x:10, y:20);
               matematika.pembagian(x:20, y:2);
PROBLEMS 4
               OUTPUT
                       DEBUG CONSOLE
                                       TERMINAL
                                                 PORTS
PS C:\Users\Nila Farihah> & 'C:\Program Files\Java\jdk-21\bin\java.exe
c76\jdt_ws\jdt.ls-java-project\bin' 'MatematikaDemo'
Pertambahan: 20 + 20 = 40
Pengurangan: 10 - 5 = 5
Perkalian: 10 \times 20 = 200
Pembagian: 20 / 2 = 10
PS C:\Users\Nila Farihah>
```

#### **Kode Program:**

#### File "Matematika.java"

```
public class Matematika {
    public void pertambahan(int x, int y) {
        System.out.println("Pertambahan: " + x + " + " + y + " =
        " + (x + y));
    }
    public void pengurangan(int x, int y) {
```

```
System.out.println("Pengurangan: " + x + " - " + y + " =
           " + (x - y);
        }
        public void perkalian(int x, int y) {
           System.out.println("Perkalian: " + x + " x " + y + " = "
           + (x * y));
        }
        public void pembagian(int x, int y) {
            if (y != 0) {
                System.out.println("Pembagian: " + x + " / " + y + "
                = " + (x / y));
            } else {
                System.out.println("Error: Pembagian dengan nol
                tidak diperbolehkan");
            }
        }
    }
File "MatematikaDemo.java"
    public class MatematikaDemo {
        public static void main(String[] args) {
            Matematika matematika = new Matematika();
            // Operasi bilangan bulat
            matematika.pertambahan(20, 20);
            matematika.pengurangan(10, 5);
            matematika.perkalian(10, 20);
            matematika.pembagian(20, 2);
        }
    }
```

## Hasil Program suhu:

```
D: > A Nila > sem4 > pbo > pertemuan3 > 🔳 suhu.java > ધ suhu > 🛇 hitungKelvin(int)
      public class suhu {
           float hasil;
           int Celcius;
           public suhu(int Celcius){
              this.Celcius = Celcius;
           public suhu(){}
           void hitungKelvin (int Celcius){
              hasil = Celcius + 273.15f;
 14
               System.out.println("Konversi suhu Celcius ke Kelvin : " + hasil + " K");
           void hitungFarhenheit (int Celcius){
              hasil = Celcius * 1.8f + 32;
               System.out.println("Konversi suhu Celcius ke Farhenheit : " + hasil + " F");
           void hitungRankine (int Celcius){
              hasil = Celcius * 1.8f + 491.67f;
               System.out.println("Konversi suhu Celcius ke Rankine : " + hasil + " Ra");
PROBLEMS 2 OUTPUT
                                     TERMINAL
PS C:\Users\Nila Farihah> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '--enable-preview' '-XX:+ShowCo
c76\jdt ws\jdt.ls-java-project\bin' 'suhuDemo'
Konversi suhu Celcius ke Kelvin : 309.15 K
Konversi suhu Celcius ke Farhenheit : 96.799995 F
Konversi suhu Celcius ke Rankine : 556.47003 Ra
Konversi suhu Celcius ke Dalisle : 96.0 De
Konversi suhu Celcius ke Newton : 11.0 N
Konversi suhu Celcius ke Reaumur : 28.800001 R
Konversi suhu Celcius ke Romer : 25.5 Ro
PS C:\Users\Nila Farihah>
```

## **Kode Program:**

## File "suhu.java"

```
public class suhu {
    float hasil;
    int Celcius;

public suhu(int Celcius){
        this.Celcius = Celcius;
    }

public suhu(){}

void hitungKelvin (int Celcius){
        hasil = Celcius + 273.15f;
```

```
System.out.println("Konversi suhu Celcius ke Kelvin : "
    + hasil + " K");
        void hitungFarhenheit (int Celcius){
            hasil = Celcius * 1.8f + 32;
            System.out.println("Konversi suhu Celcius ke Farhenheit
    : " + hasil + " F");
        void hitungRankine (int Celcius){
            hasil = Celcius * 1.8f + 491.67f;
            System.out.println("Konversi suhu Celcius ke Rankine : "
    + hasil + " Ra");
        }
        void hitungDalisle (int Celcius){
            hasil = (100 - Celcius) * 1.5f;
            System.out.println("Konversi suhu Celcius ke Dalisle : "
    + hasil + " De");
        void hitungNewton (int Celcius){
            hasil = Celcius * 33/100;
            System.out.println("Konversi suhu Celcius ke Newton : "
    + hasil + " N");
        }
        void hitungReaumur (int Celcius){
            hasil = Celcius * 0.8f;
            System.out.println("Konversi suhu Celcius ke Reaumur : "
    + hasil + " R");
        void hitungRomer(int Celcius){
            hasil = Celcius * 21/40 + 7.5f;
            System.out.println("Konversi suhu Celcius ke Romer : " +
    hasil + " Ro");
        }
    }
File "suhuDemo.java"
    public class suhuDemo {
        public static void main(String[] args) {
            suhu Suhu = new suhu(36);
            Suhu.hitungKelvin(Suhu.Celcius);
            Suhu.hitungFarhenheit(Suhu.Celcius);
            Suhu.hitungRankine(Suhu.Celcius);
            Suhu.hitungDalisle(Suhu.Celcius);
            Suhu.hitungNewton(Suhu.Celcius);
            Suhu.hitungReaumur(Suhu.Celcius);
            Suhu.hitungRomer(Suhu.Celcius);
        }
    }
```

## **Hasil Program TestStatic:**

```
static int b = 20;
         protected int c = 30;
          public int d = 40;
          private int e = 50;
          void satu(){
             dua();
              System.out.println(x:"satu....");
              System.out.println("satu.....a "+a);
System.out.println("satu.....b "+b);
System.out.println("satu.....c "+c);
              System.out.println("satu.....d "+d);
              System.out.println("satu....e "+e);
          static void dua(){
               System.out.println("dua...."+b);
          public static void main(String[] a){
               dua();
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL
Copyright (C) Microsoft Corporation. All rights reserved.
PS C:\Users\Nila Farihah> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '--enable-preview' '-XX:+ShowC
PS C:\Users\Nila Farihah> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '--enable-preview' '-XX:+ShowCo
dua.....20
PS C:\Users\Nila Farihah>
```

## **Kode Program:**

# File "TestStatic.java"

```
public class TestStatic {
  int a = 10;
  static int b = 20;
  protected int c = 30;
  public int d = 40;
  private int e = 50;
  void satu(){
      dua();
      System.out.println("satu.....");
      System.out.println("satu......a "+a);
      System.out.println("satu......b "+b);
      System.out.println("satu......c "+c);
      System.out.println("satu......d "+d);
      System.out.println("satu......d "+d);
      System.out.println("satu.......d "+e);
```

```
}
static void dua(){
    // satu(); --> error ststic call non static
    System.out.println("dua....."+b);
    // System.out.println("dua....."+a); --> error
ststic call var non static
    }
    public static void main(String[] a){
        // satu(); --> error ststic call non static
        dua();
    }
}
```

# **Hasil Program TestStatic1:**

public class TestStatic1 {

```
public static void main(String[] args) {
    TestStatic test = new TestStatic();

    test.satu(); // Memanggil method satu() dari objek test
    TestStatic.dua(); // Memanggil method dua() secara
langsung dari kelas TestStatic
```

```
// Mencetak kembali attribute a-e dari objek test
System.out.println("Attribute a: " + test.a);
System.out.println("Attribute b: " + TestStatic.b);
System.out.println("Attribute c: " + test.c);
System.out.println("Attribute d: " + test.d);
// System.out.println("Attribute e: " + test.e); // e
adalah private sehingga tidak bisa diakses dari luar kelas
TestStatic
}
}
```