Mata Kuliah : PBO – TI – S1
Pertemuan : 4
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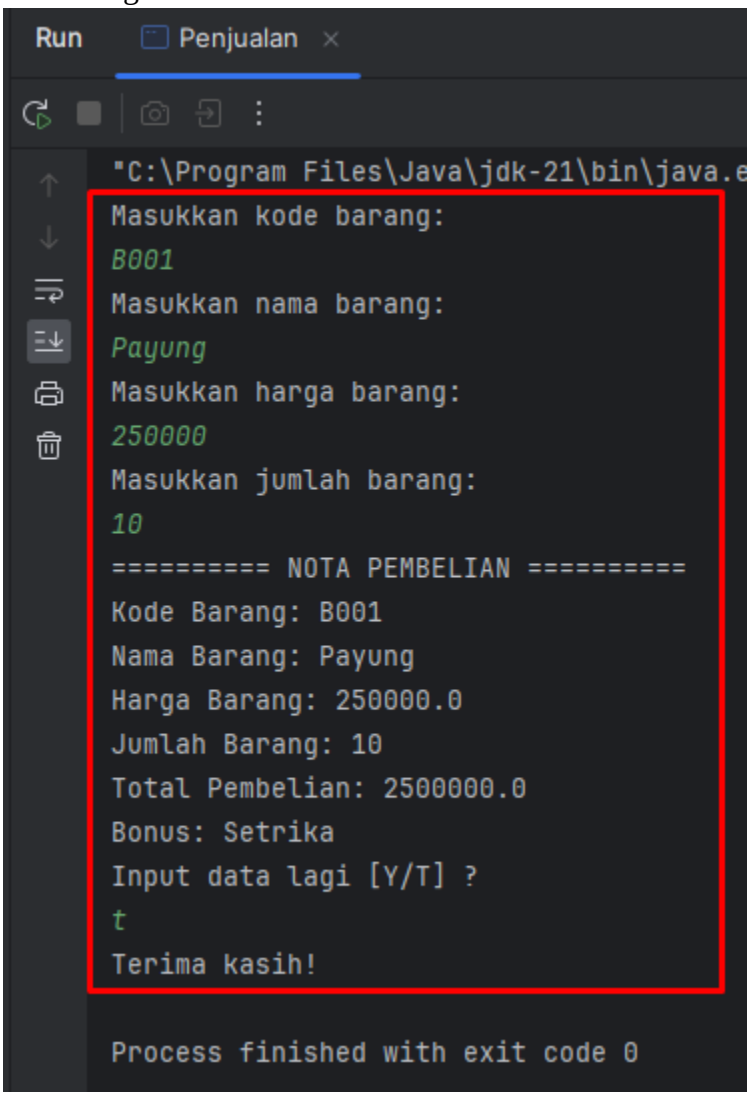
1. Tugas 1 : membuat class penjualan
   Hasil Program :



Code Program :

Penjualan.java

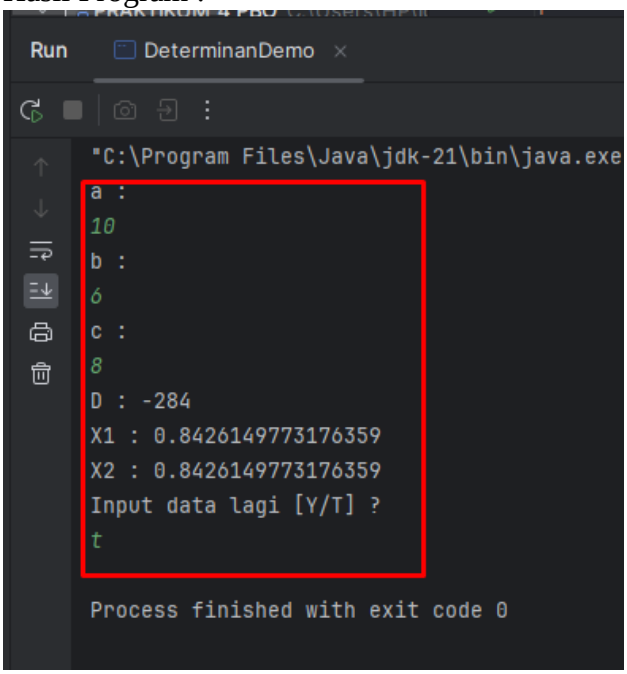
```java
//praktik 4 soal 1:
import java.util.Scanner;
public class Penjualan {
    2 usages
    private String kode;
    2 usages
    private String nama;
    3 usages
    private float harga;
    6 usages
    private int jumlah;

    // Method untuk mengatur data penjualan
    1 usage
    public void setData(String kode, String nama, float harga, int jumlah) {
        this.kode = kode;
        this.nama = nama;
        this.harga = harga;
        this.jumlah = jumlah;
    }

    // Method untuk menghitung total pembelian
    2 usages
    public float getTotalPembelian() { return harga * jumlah; }

    // Method untuk mendapatkan bonus
    1 usage
    public String getBonus() {
```

Penjualan.java

```java
    public String getBonus() {
        float totalPembelian = getTotalPembelian();
        if (totalPembelian >= 500000 && jumlah > 5) {
            return "Setrika";
        } else if (totalPembelian >= 100000 && jumlah > 3) {
            return "Payung";
        } else if (totalPembelian >= 50000 || jumlah > 2) {
            return "Ballpoint";
        } else {
            return "Tidak ada bonus";
        }
    }

    // Method untuk mencetak nota
    1 usage
    public void cetakNota() {
        System.out.println("========== NOTA PEMBELIAN ==========");
        System.out.println("Kode Barang: " + kode);
        System.out.println("Nama Barang: " + nama);
        System.out.println("Harga Barang: " + harga);
        System.out.println("Jumlah Barang: " + jumlah);
        System.out.println("Total Pembelian: " + getTotalPembelian());
        System.out.println("Bonus: " + getBonus());
    }
```

```java
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        Penjualan penjualan = new Penjualan();
        char input;

        do {
            System.out.println("Masukkan kode barang: ");
            String kode = scanner.nextLine();
            System.out.println("Masukkan nama barang: ");
            String nama = scanner.nextLine();
            System.out.println("Masukkan harga barang: ");
            float harga = scanner.nextFloat();
            System.out.println("Masukkan jumlah barang: ");
            int jumlah = scanner.nextInt();

            penjualan.setData(kode, nama, harga, jumlah);
            penjualan.cetakNota();

            System.out.println("Input data lagi [Y/T] ?");
            input = scanner.next().charAt(0);
            scanner.nextLine(); // Clearing the newline character from buffer
        } while (input == 'Y' || input == 'y');

        System.out.println("Terima kasih!");
        scanner.close();
    }
}
```

2. Tugas 2 : menghitung rumus ABC
   Hasil Program :



Code Program :

DeterminanDemo.java | Determinan.java

```java
//praktik 4 soal no 2 :
import java.util.Scanner;
2 usages
public class Determinan {
    9 usages
    int a,b,c;
    8 usages
    long d;
    4 usages
    double x1,x2;
    3 usages
    Scanner myObj = new Scanner(System.in);
    1 usage
    void inputData()
    {
        System.out.println("a : ");a=myObj.nextInt();
        System.out.println("b : ");b=myObj.nextInt();
        System.out.println("c : ");c=myObj.nextInt();
    }
    //rumus determinan : D=b²-4ac
    1 usage
    void hitungD() { d=(b*b)-(4*a*c); }

    1 usage
    void hitungX()
    {
        if (d>0)
        {
```

DeterminanDemo.java Determinan.java

```
    void hitungX()
    {
        if (d>0)
        {
            //math.sqrt = akar kuadrat
            //jika D > 0, maka rumus ABC : x1 = -b + √D / 2a
            x1=(-b+Math.sqrt(d))/(2*a);
            //x2 = -b - √D / 2a
            x2=(-b-Math.sqrt(d))/(2*a);
        } else if (d==0)
        {
            //jika D = 0, maka rumus ABC :
            // x1 = x2 = -b / 2a
            x1=x2=-b/(2*a);
        }
        else {
            //jika D < 0, maka rumus ABC akan menghasilkan akar imajiner :
            // x1 = -b/2a + √-D / 2a
            x1=-b/(2*a)+Math.sqrt(-d)/(2*a);
            // x2 = -b/2a - √-D / 2a
            x2=-b/(2*a)+Math.sqrt(-d)/(2*a);
        }
    }
    void cetak()
    {
        System.out.println("D : "+d);
        System.out.println("X1 : "+x1);
        System.out.println("X2 : "+x2);

    }
}
```

DeterminanDemo.java | Determinan.java

```java
//praktik 4 soal no 2 :
import java.util.Scanner;
public class DeterminanDemo {
    public static void main(String[] args) {
        Determinan determinan = new Determinan();
        Scanner input = new Scanner(System.in);
        char jawaban = 'Y';
        while (jawaban == 'Y' || jawaban == 'y')
        {
            determinan.inputData();
            determinan.hitungD();
            determinan.hitungX();
            determinan.cetak();
            System.out.println("Input data lagi [Y/T] ?");
            jawaban = input.next().charAt(0);
        }
        input.close();
    }
}
```

3. Tugas 3 : membuat program konversi detik ke hari, jam, menit, detik.
   Hasil Program :

Run | Konversi

```
"C:\Program Files\Java\jdk-21\bin\java.exe"
Masukkan jumlah detik :
180061
Hasil konversi waktu :
Hari : 2
Jam : 2
Menit : 1
Detik : 1
Input data lagi [Y/T] ?
t

Process finished with exit code 0
```

Code Program :

Konversi.java

```java
//praktik 4 soal no 3 :
import java.util.Scanner;
public class Konversi {
    public static void main (String[] args)
    {
        Scanner input = new Scanner(System.in);
        char jawaban = 'Y';
        while (jawaban == 'Y' || jawaban == 'y')
        {
            System.out.println("Masukkan jumlah detik : ");
            int detik = input.nextInt();

            int hari = detik / 86400;
            detik %= 86400;

            int jam = detik / 3600;
            detik %= 3600;

            int menit = detik / 60;
            detik %= 60;

            System.out.println("Hasil konversi waktu : ");
            System.out.println("Hari : " + hari);
            System.out.println("Jam : " + jam);
            System.out.println("Menit : " + menit);
            System.out.println("Detik : " + detik);

            System.out.println("Input data lagi [Y/T] ?");
            System.out.println("Input data lagi [Y/T] ?");
            jawaban = input.next().charAt(0);
        }
        input.close();
    }
}
```