

Fakultas Ilmu Komputer
Dasar-dasar Pemrograman 2

Nama	
NPM	

*disarankan untuk menggunakan pensil dalam mengerjakan soal

Tujuan Latihan:

- Memahami konsep *Call by Value*, *static method* & *static variable*

Soal 1. Apakah output potongan program di bawah ini:

```
class MyInteger {
    private int value;

    public MyInteger(int i) { value = i; }

    public int getValue() { return value; }
    public void setValue(int i) { value = i; }
}
```

```
public class CBV {
    public static void main(String[] arg) {
        int a = 11, b = 22;

        CBV ob = new CBV();
        ob.method1(a, b);
        System.out.println("a: " + a + ", b: " + b);

        MyInteger aa = new MyInteger(a);
        MyInteger bb = new MyInteger(b);
        ob.method2(aa, bb);
        a = aa.getValue();
        b = bb.getValue();
        System.out.println("a: " + a + ", b: " + b);

        MyInteger cc = new MyInteger(a);
        ob.method3(cc);
        System.out.println("c: " + cc.getValue());
    }

    public void method1(int x, int y) {
        int temp = x;
        x = y;
        y = temp;
    }

    public void method2(MyInteger x, MyInteger y) {
        int temp = x.getValue();
        x.setValue(y.getValue());
        y.setValue(temp);
    }
}
```

```

public void method3(MyInteger x) {
    int newValue = x.getValue() + 10;
    x = new MyInteger(newValue);
}
}

```

Soal 2. Apakah output potongan program di bawah:

<pre> public class SVM { private int a; private static int b = 0; private static int c = 0; public SVM (int a) { this.a = a; c++; //mengapa bukan this.c ? } public int getA() { return this.a; } public void setA(int newA) { this.a = newA; } } </pre>	<pre> public static int getB() { return b; } public void setB(int newB) { b = newB; } public static void setB2(int newB) { b = newB; } public static int getC() { return c; } } </pre>
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```

public class Utama {
    public static void main(String[] arg) {
        SVM a = new SVM(1);
        SVM b = new SVM(2);
        System.out.println(SVM.getC());
        SVM c = new SVM(3);
        System.out.println(SVM.getC());
        System.out.println(a.getC());
        System.out.println(b.getC());

        a.setA(10);
        System.out.println(a.getA());
        System.out.println(c.getA());

        SVM.setB2(20);
        System.out.println(SVM.getB());
        System.out.println(b.getB());
        System.out.println(c.getB());

        c.setB(30);
        System.out.println(SVM.getB());
        System.out.println(c.getB());
        System.out.println(b.getB());
    }
}

```

