

MODUL 1

No.

Date. / /

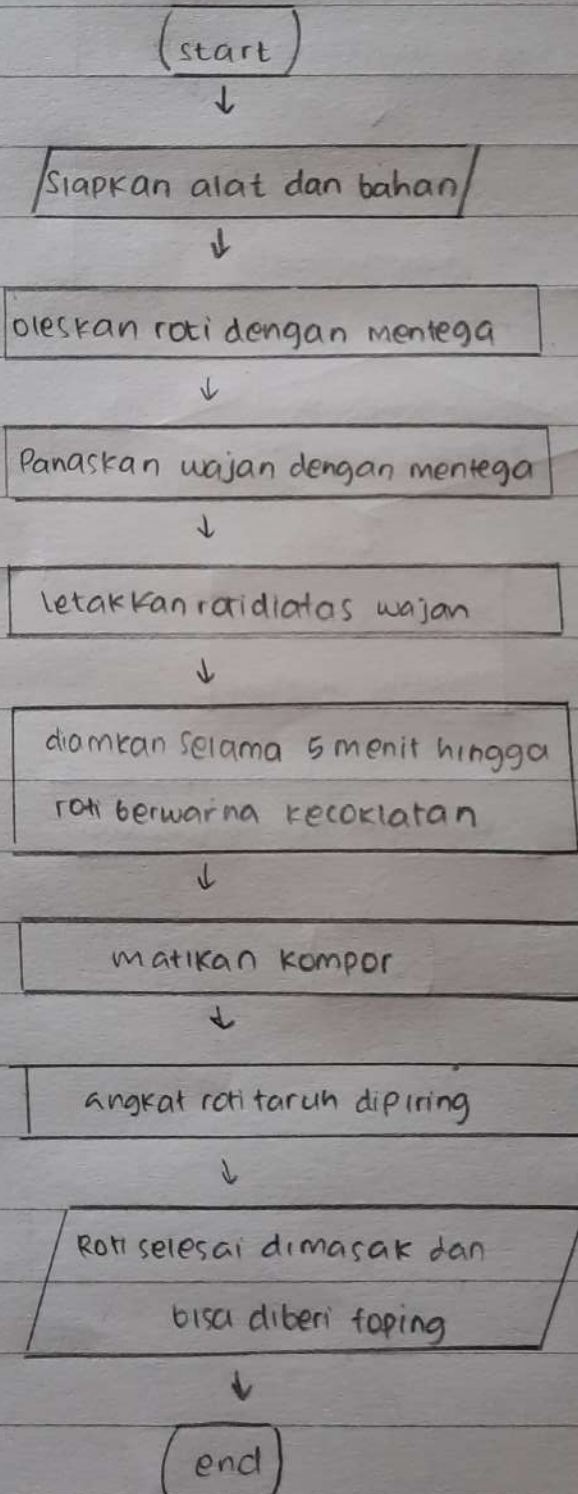
1.7.1 Menyusun Algoritma

AMELYA KARTIKA

2201082002

TK 18

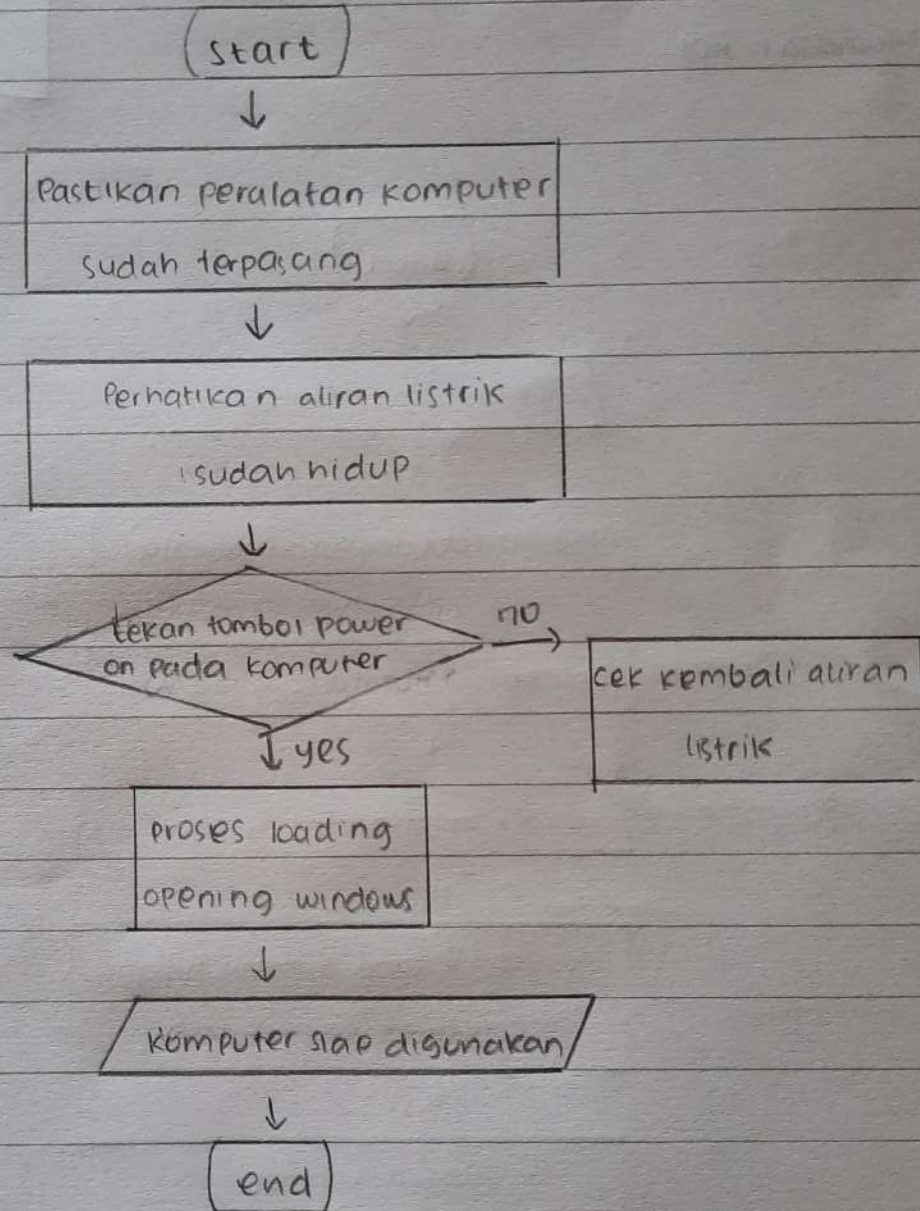
① Memasak Roti



No.

Date. / /

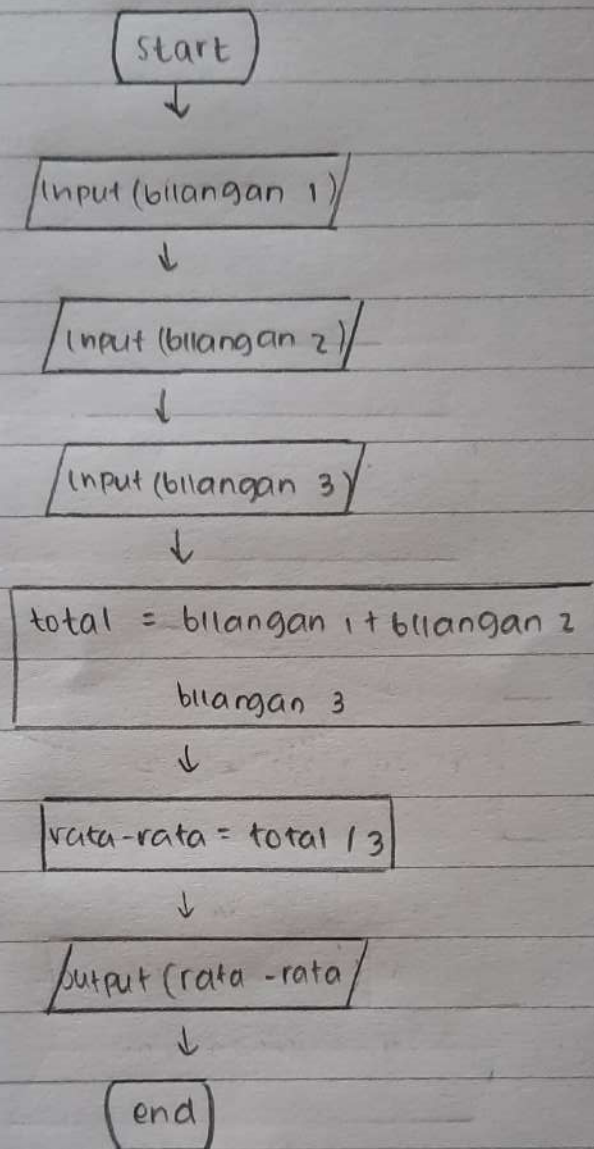
② Menggunakan komputer di Laboratorium



No.

Date.

③ Menghitung rata-rata dari 3 buah bilangan



No.

Date.

1.72 KONVERSI SISTEM BILANGAN

$$1. \quad 1980_{(10)} = 11110111100_{(2)}$$

$$\begin{array}{r} 2 \overline{) 1980} \quad 0 \end{array}$$

$$\begin{array}{r} 2 \overline{) 990} \quad 0 \end{array}$$

$$\begin{array}{r} 2 \overline{) 495} \quad 1 \end{array}$$

$$\begin{array}{r} 2 \overline{) 247} \quad 1 \end{array}$$

$$\begin{array}{r} 2 \overline{) 123} \quad 1 \end{array}$$

$$\begin{array}{r} 2 \overline{) 61} \quad 1 \end{array}$$

$$\begin{array}{r} 2 \overline{) 30} \quad 0 \end{array}$$

$$\begin{array}{r} 2 \overline{) 15} \quad 1 \end{array}$$

$$\begin{array}{r} 2 \overline{) 7} \quad 1 \end{array}$$

$$\begin{array}{r} 2 \overline{) 3} \quad 1 \end{array}$$

1

$$1980_{(10)} = 7BC_{(16)}$$

$$\begin{array}{r} 16 \overline{) 1980} \quad (12) \rightarrow \text{sisa} \end{array}$$

$$\begin{array}{r} 16 \overline{) 123} \quad (11) \rightarrow \text{sisa} \end{array}$$

$$\begin{array}{r} 16 \overline{) 7} \quad (7) \end{array}$$

7, 11 = B, 12 = C

$$1980_{(10)} = 3674_{(8)}$$

$$\begin{array}{r} 8 \overline{) 1980} \quad 4 \end{array}$$

$$\begin{array}{r} 8 \overline{) 247} \quad 7 \end{array}$$

$$\begin{array}{r} 8 \overline{) 30} \quad 6 \end{array}$$

$$\begin{array}{r} 8 \overline{) 24} \end{array}$$

3

No.

Date. / /

$$2. \quad 1001001101_{(2)} = 589_{(10)}$$

$$1 \times 2^9 + 0 \times 2^8 + 0 \times 2^7 + 1 \times 2^6 + 0 \times 2^5 + 0 \times 2^4 + 1 \times 2^3 + 1 \times 2^2 + 0 \times 2^1 + 1 \times 2^0$$

$$= 512 + 0 + 0 + 64 + 0 + 0 + 8 + 4 + 0 + 1$$

$$= 589_{(10)}$$

$$1001001101_{(2)} = 240_{(16)}$$

$$\underline{001001001101}$$

$$1101 = 1 \times 2^3 + 1 \times 2^2 + 0 \times 2^1 + 1 \times 2^0$$

$$= 8 + 4 + 0 + 1$$

$$= 13(D)$$

$$00100 = 0 \times 2^3 + 1 \times 2^2 + 0 \times 2^1 + 0 \times 2^0$$

$$= 0 + 4 + 0 + 0$$

$$= 4$$

$$0010 = 0 \times 2^3 + 0 \times 2^2 + 1 \times 2^1 + 0 \times 2^0$$

$$= 0 + 0 + 2 + 0$$

$$= 2$$

$$\underline{001001001101}_{(2)} = 1115_{(8)}$$

$$> 101 = 1 \times 2^2 + 0 \times 2^1 + 1 \times 2^0$$

$$= 4 + 0 + 1$$

$$= 5$$

$$> 001 = 0 \times 2^2 + 0 \times 2^1 + 1 \times 2^0$$

$$= 0 + 0 + 1$$

$$= 1$$

$$> 001 = 0 \times 2^2 + 0 \times 2^1 + 1 \times 2^0$$

$$= 0 + 0 + 1$$

$$> 001 = 0 \times 2^2 + 0 \times 2^1 + 1 \times 2^0$$

$$= 0 + 0 + 1$$

$$= 1$$

No.

Date.

$$3. \quad 76_{(8)} = 111110_{(2)} \quad (2)$$

$$\begin{array}{r|l} 2 & 7 \\ \hline 2 & 3 \\ \hline & 1 \end{array}$$

111

$$\begin{array}{r|l} 2 & 6 \ 0 \\ \hline 2 & 3 \ 1 \\ \hline & 1 \end{array}$$

110

$$76_{(8)} = 3E_{(16)}$$

$$\begin{array}{l} 7 = 111 \\ 6 = 110 \end{array}$$

16	8	4	2	1
			1	1
			1	0

$$\begin{array}{r} 00111110 \\ \hline 3 \quad 14 \\ \hline 3 \quad E \end{array}$$

$$76_{(8)} = 62_{(10)}$$

$$\begin{aligned} & 7 \times 8^1 + 6 \times 8^0 \\ & = 7 \times 8 + 6 \times 1 \\ & = 56 + 6 \\ & = 62_{(10)} \end{aligned}$$

No.

Date. / /

$$4. \quad 43F_{(16)} = 0100 \ 0011 \ 1111 \quad (12)$$

$$4 = 0100$$

$$3 = 0011$$

$$F = 1111$$

$$43F_{(16)} = 1087 \quad (10)$$

$$\begin{array}{ccc} 16^2 & 16^1 & 16^0 \\ 4 & 3 & 15 \end{array}$$

$$256 \ 16 \ 1$$

$$1024 + 48 + 15$$

$$1087$$

$$43F_{(16)} = 2077 \quad (18)$$

$$4 \quad 3 \quad F$$

$$0100 \quad 0011 \quad 1111$$

$$0100 \ 0011 \ 1111$$

$$2 \quad 0 \quad 7 \quad 7$$

3.6.1 Hello world!

AMELYA KARTIKA

2201082002

TK 1B

```
Public class HelloWorld {
```

```
    Public static void main (String[] args) {
```

```
        System.out.println (" HelloWorld");
```

```
        System.out.println (" Welcome to Java Programming Camel J!!! ");
```

```
    }
```

```
}
```

3.6.2 The Tree

```
Public class The Tree {
```

```
    Public static void main (String [] args) {
```

```
        System.out.println ("think that I shall never see");
```

```
        System.out.println (" a poem as lovely as a tree");
```

```
        System.out.println (" A tree whose hungry is pressed");
```

```
        System.out.println (" A gaintst the Earth's sweet flowing breast");
```

```
    }
```

```
}
```


No.

Date. / /

MODUL 4

4.11.1 Mendeklarasikan dan mencetak variabel

Public class Deklarasi dan Mencetak Variabel {

public static void main (String[] args) {

int number = 10 ;

char letter = 'a' ;

boolean result = true ;

String str = "hello" ;

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

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

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

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

}

}

4.11.2 Mendapatkan nilai rata-rata dari tiga angka

Public class Rata-Rata tiga Angka {

public static void main (String[] args) {

int angka1 = 10 ;

int angka2 = 20 ;

int angka3 = 45 ;

System.out.println ("angka 1 : " + angka1);

System.out.println ("angka 2 : " + angka2);

System.out.println ("angka 3 : " + angka3);

System.out.println ("Rata-rata = " + (angka1 + angka2 + angka3) / 3);

}

}

4.11.3 Menampilkan nilai terbesar

```
Public Class NilaiTerbesar {
```

```
    Public static void main (String[] args) {
```

```
        int angka1 = 10 ;
```

```
        int angka2 = 23 ;
```

```
        int angka3 = 5 ;
```

```
        int max = 0 ;
```

```
        max = (angka1 > angka2) ? angka1 : angka2 ;
```

```
        max = (max > angka3) ? max : angka3 ;
```

```
        System.out.println ("nilai terbesarnya = " + max);
```

```
    }
```

```
}
```

4.11.4 Operator Precedence

```
Public Class Operator Precedence {
```

```
    Public static void main (String[] args) {
```

```
        String a = "((a / (b ^ c) ^ d - e + f - (g * h) + i)";
```

```
        int b = "(((3 + 10) * 2) / 15) - 2 + ((4 ^ 2) ^ 2)";
```

```
        String c = "(((r ^ s) ^ t) / u) - v + (w ^ x) - y + t";
```

```
        System.out.println ("Hasil = " + b);
```

```
    }
```

```
}
```