1-7 Latihan.

No.
Date. / /

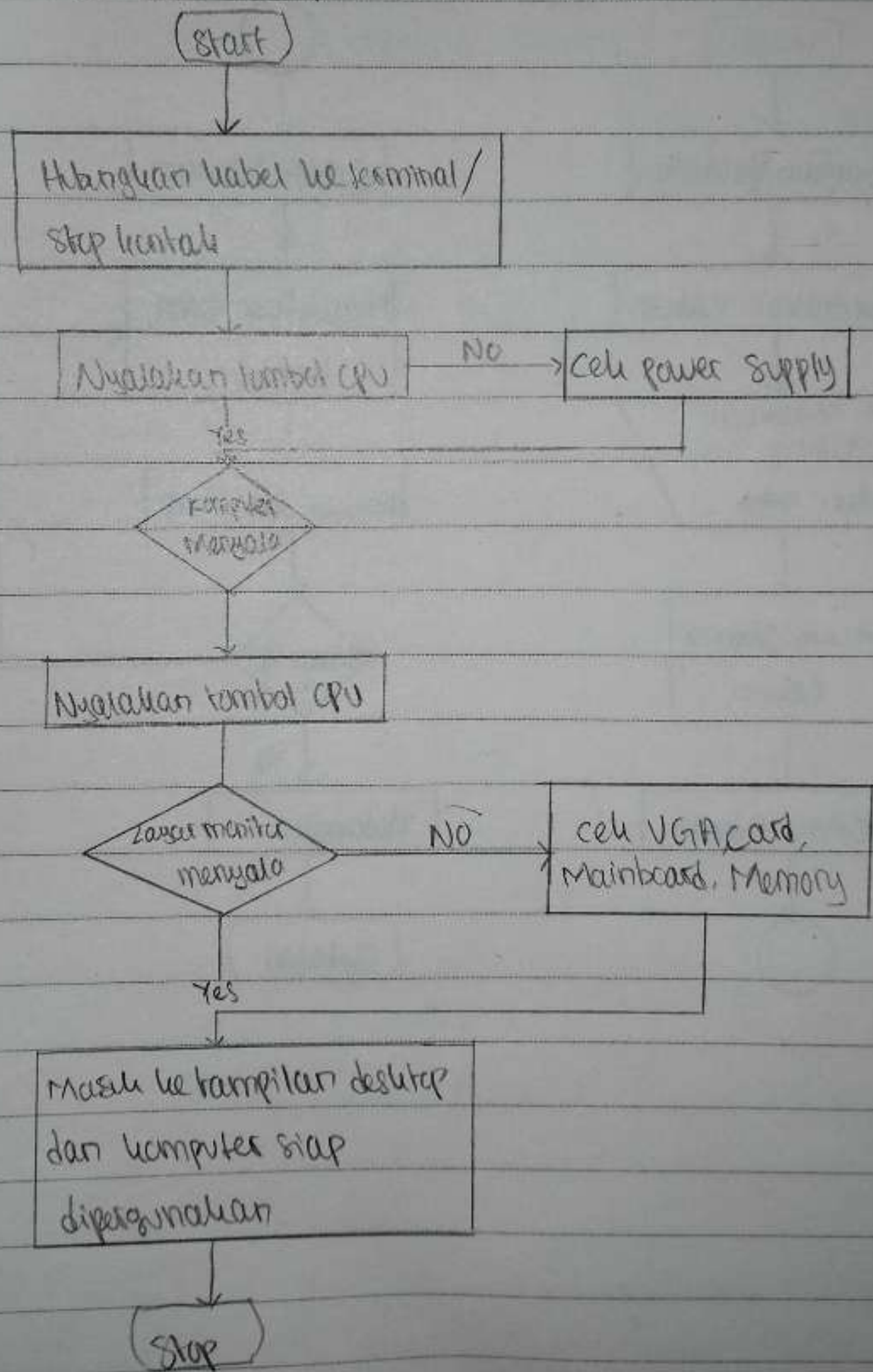
1-7-1 Menyusun Algoritma

1. Memasak Roti

No.

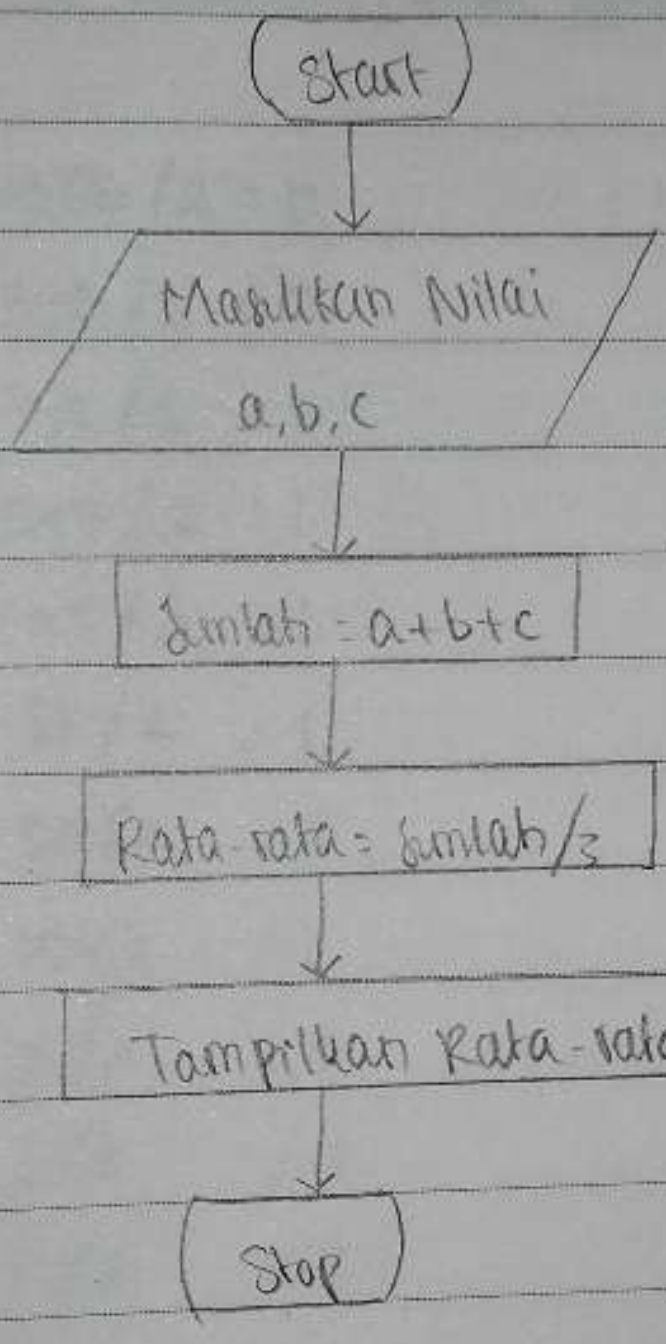
Date. / /

2. Menggunakan Komputer di Laboratorium



No.
Date. / /

3. Menghitung rata-rata dari 3 buah bilangan



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1.7.2 Konversi Sistem Bilangan

1. 1980_{10} ke bilangan biner, heksadesimal, dan oktal.

Jawab:

1. biner : 1980 / 2 = 0
990 / 2 = 0
495 / 2 = 1
247 / 2 = 1
123 / 2 = 1
61 / 2 = 1
30 / 2 = 0
15 / 2 = 1
7 / 2 = 1
3 / 2 = 1
1 / 2 = 1

Biner = 11110111100_2

2. heksadesimal : 0111 = 7
1011 = B
1100 = C

heksadesimal = $7BC_{16}$

3. oktal: 011 = 3 110 = 6 111 = 7 100 = 4
oktal = 3674$_8$

No.
Date. / /

2. 1001001101_2 ke sistem bilangan Desimal, Heksadesimal dan Oktal

Jawab:

1. Desimal : $1+4+8+64+512 = 589_{10}$

2. Heksadesimal : 1001001101 = 0010 = 2

0100 = 4

1101 = D

Heksadesimal = $24D_{16}$

3. Oktal : 001 = 1

001 = 1

001 = 1

101 = 5

Oktal = 1115_8

3. 76_8 ke sistem bilangan Biner, Heksadesimal, dan Desimal.

Jawab : Biner : 111110_2

Heksadesimal : 0011 = 3 1110 = E

$= 3E_{16}$

Desimal : $2+8+16+4+32 = 62_{10}$

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4. $43F_{16}$ ke sistem bilangan Biner, Desimal, dan Oktal.

Jawab:

Biner : 0100 = 4

0011 = 3

1111 = F

$43F_{16} = 010000111111_2$

Desimal = 1 + 2 + 4 + 16 + 8 + 32 + 1024 = 1087_{10}

Oktal = 010 = 2

000 = 0

111 = 7

111 = 7

Oktal = 2077_8