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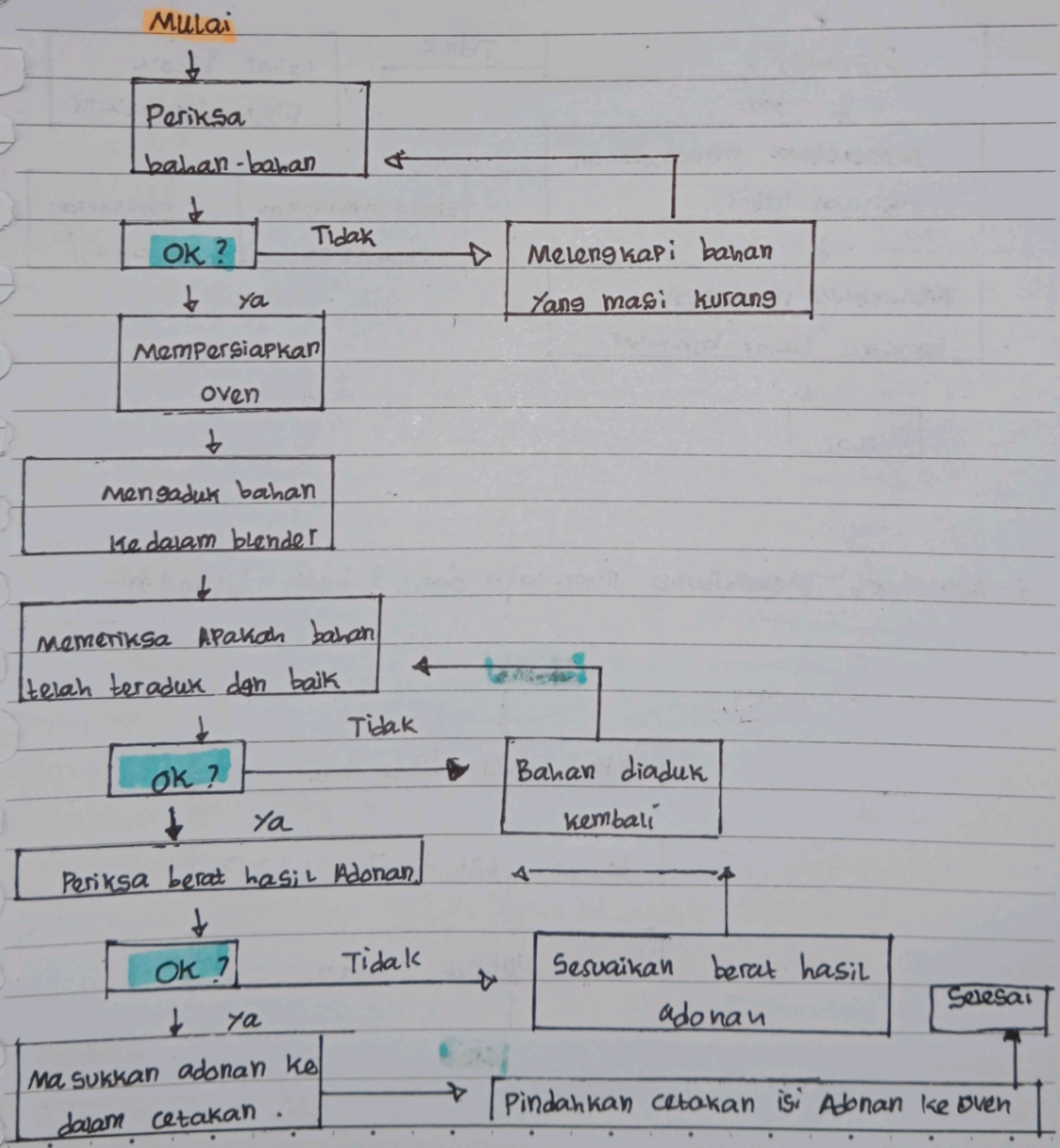
Nama = Rasis Al Zailany Hasibuan.
Nim = 2201081011

1.7.1. Menyusun Algoritma
Flow Chart "Memasak Roti"



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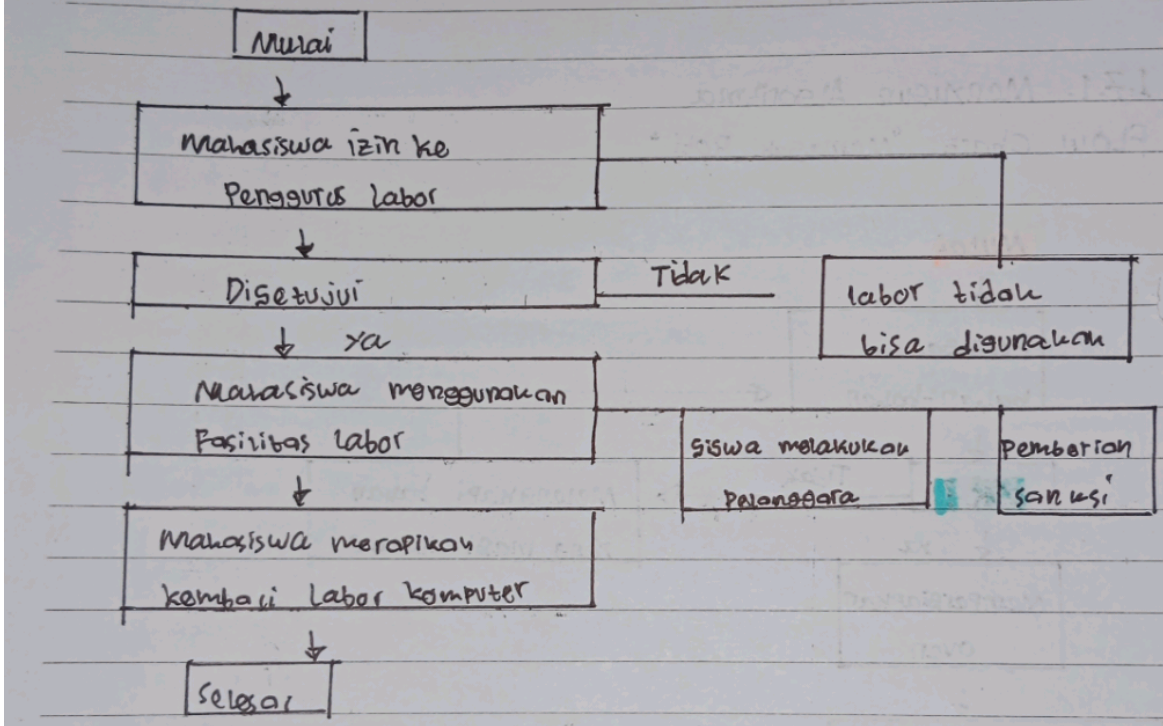
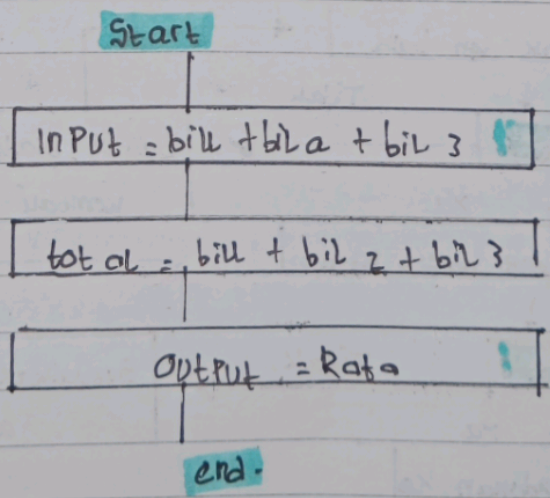
2. Flowchart Menggunakan komputer di laboratorium



3. AOWchart menghitung rata-rata dari 3 buah bilangan



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

1980 / 2 = 990 sisa 0
990 / 2 = 495 sisa 0
495 / 2 = 247 sisa 1
247 / 2 = 61 sisa 1
123 / 2 = 30 sisa 1
61 / 2 = 15 sisa 0
30 / 2 = 7 sisa 1
15 / 2 = 3 sisa 1
7 / 2 = 3 sisa 1
3 / 2 = 1 sisa 1
1 / 2 = 0 sisa 1

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

1980 / 16 = 123 sisa 12 (C)
123 / 16 = 7 sisa 11 (B)
7 / 16 = 0 sisa 7

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

1980 / 8 = 247 sisa 4
247 / 8 = 30 sisa 7
30 / 8 = 3 sisa 6
3 / 8 = 0 sisa 3

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2.

1. $1001001101_{(2)} = 589_{(10)}$ (Desimal)

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

$512 + 64 + 8 + 4 + 1$

$= 589.$

2. $1001001101_{(2)} = 24D_{(16)}$ (Hexadesimal)

$1101 = 8 + 4 + 1 = 13 (D)$

$0100 = 4$

$0010 = 2$

3. $1001001101_{(2)} = 1115_{(8)}$ (Oktal)

$101 = 5$

$001 = 1$

$001 = 1$

$001 = 1$

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(3.)

3. 76 (8) = 111110 (2) (biner)

7 = 111

6 = 110

76 (8) = 3E (16) (Hexadesima)

7 = 111
6 = 110
00111110
1110 = 14 (E)
0011 = 3

76 (8) = 62 (10) (Desimal)

= (7 x 8¹) + (6 x 8⁰)

= 56 + 6

= 62

(4.)

4. 43 F (16) = 010000111111 (2) (biner

4 = 0100
3 = 0011
F = 1111

= 010000111111

43 F(16) = 1087 (10) (Desimal)

= (4 × 16²) + (3 × 16²) + (15 × 16⁰)

= 1024 + 48 + 15

= 1087

43 F (16) 2077 (8) (oktal)

4 = 0100
3 = 0011
F = 1111

= 010000111111

010 = 2
000 = 0
111 = 7
111 = 7