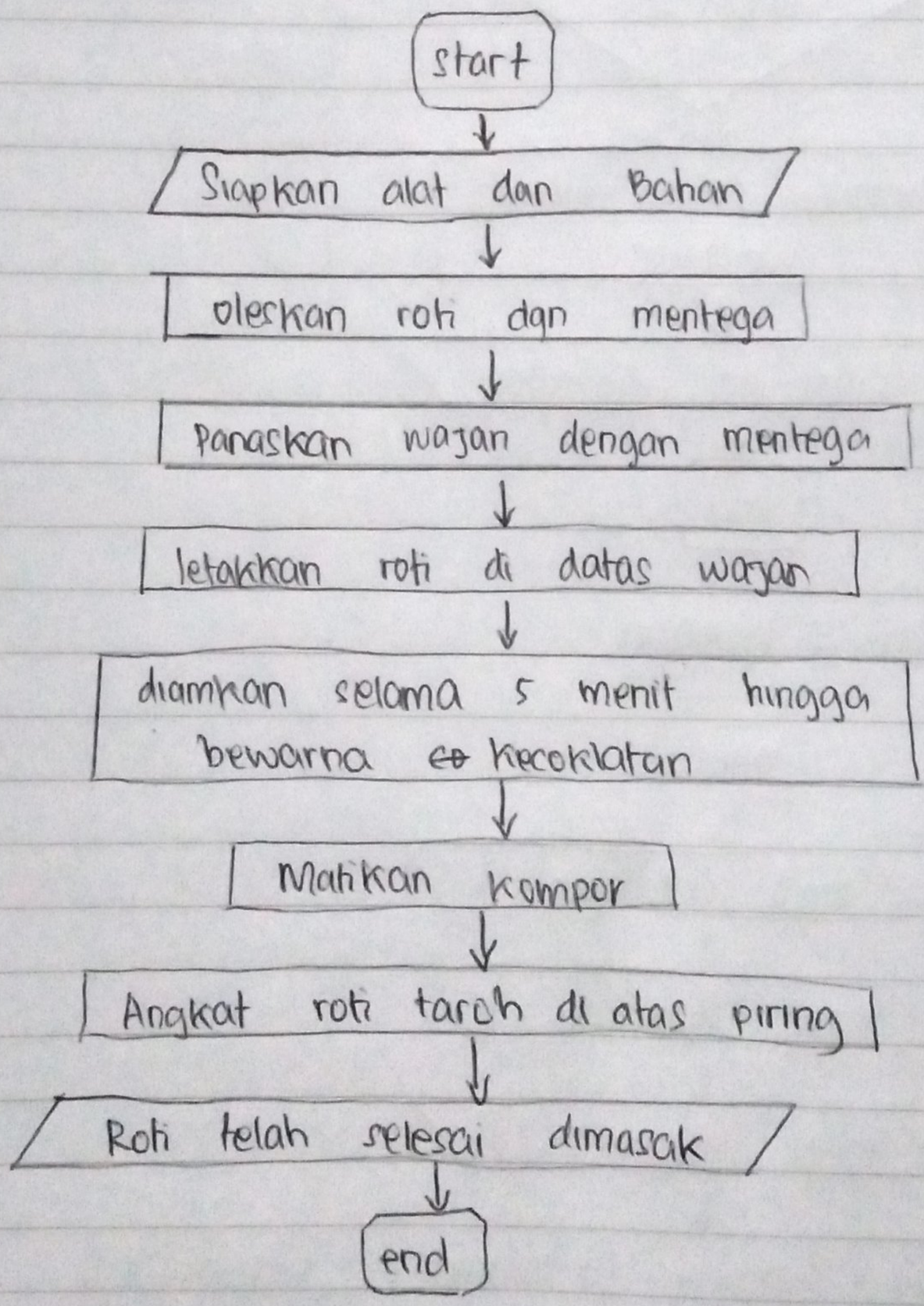
Nama : Widya Netrizal
NIM : 2201082019
Kelas : Teknik Komputer 1B
Matkul : Pemograman Berbasis Objek.

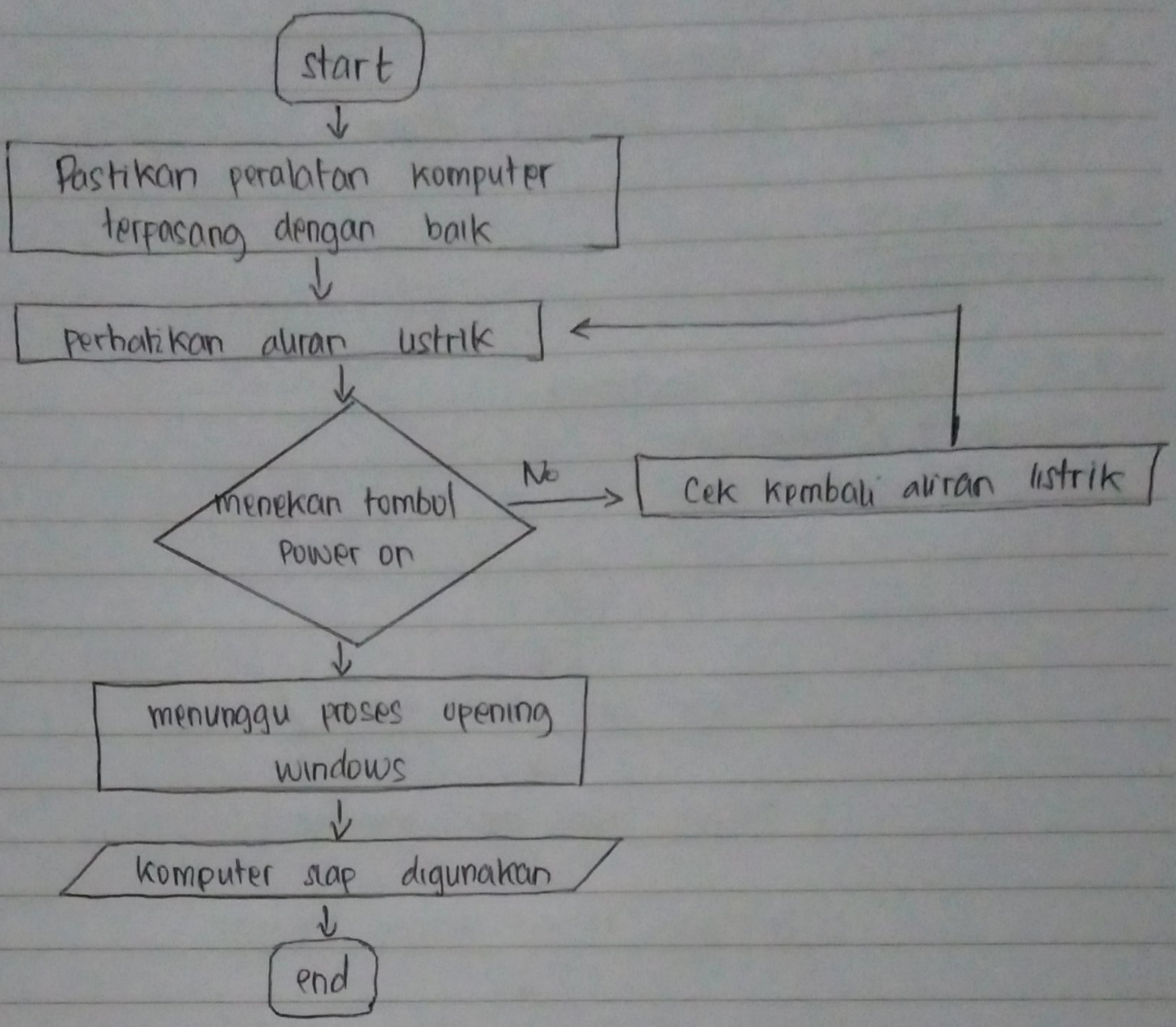
1.7 Latihan

1.7.1 Menyusun algoritma flowchart / Pseudocode

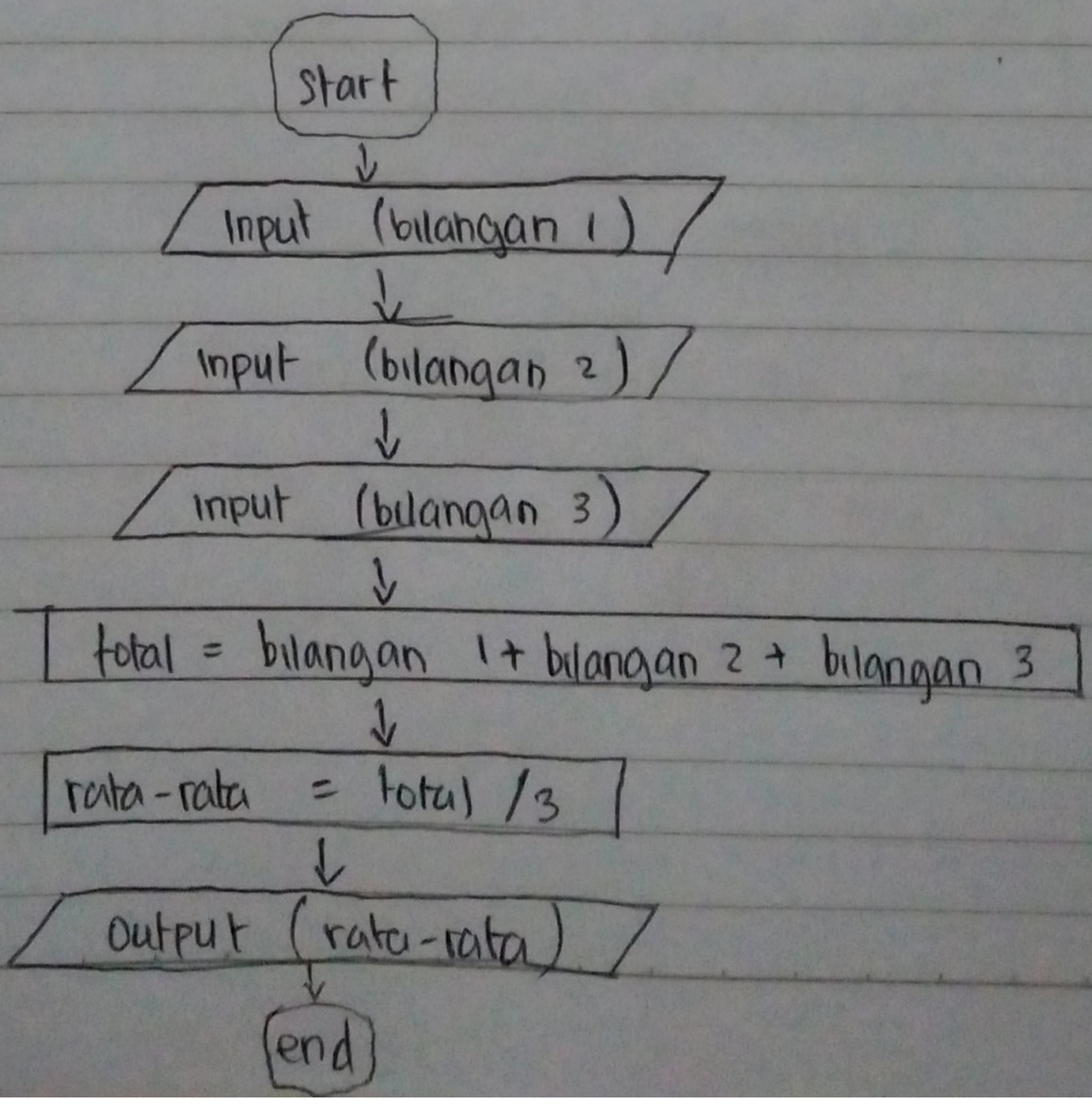
1. Memasak Roti



2. Menggunakan komputer di Laboratorium



3. Menghitung rata- rata dari 3 bilangan



1. 7. 2 Konversi Sistem Bilangan.

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

Biner =

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

=> 11110111100

oktal =

8	1980	4
8	247	7
8	30	6
8	3	3
	0	

=> 3674_8

Heksadesimal =

16	1980	12
16	123	11
16	7	7
	0	

=> $7BC_{16}$

2. 1001001101_2 ke sistem bilangan Desimal, heksadesimal dan oktal

Desimal = 0 x 2 + 1 = 1
1 x 2 + 0 = 2
2 x 2 + 0 = 4
4 x 2 + 1 = 9
9 * 2 + 0 = 18
18 x 2 + 0 = 36
36 x 2 + 1 = 73
73 x 2 + 1 = 143
143 x 2 + 0 = 294
294 x 2 + 1 = 589

=> 589_{10}

Heksadesimal = 10 | 0100 | 1101
2 4 13
2 4 d

=> $24D_{16}$

Oktal = 1 | 001 | 001 | 101
1 1 1 5

=> 1115_8

No.

Date

3. 76_8 ke sistem bilangan biner, Heksadesimal dan desimal

Biner = 7 6
111 | 110
=> 111110_2

Desimal = 11 | 1110
3 4
=> 3E

Heksadesimal = 7 6
$6 \times 8^0 = 6$
$7 \times 8^1 = 56$ +
62

=> 62_{10}

4. $43F_{16}$ ke sistem bilangan biner, desimal dan oktal

Biner = 4 | 3 | F
100 | 0011 | 111
=> $100\,0011\,111_3$

Oktal = 10 | 000 | 111 | 111
2 0 7 7
=> 2077_8

Desimal = 43F
$F \times 16^0 = 15$
$3 \times 16^1 = 48$
$4 \times 16^2 = 1024$ +
1087

=> 1087_{10}