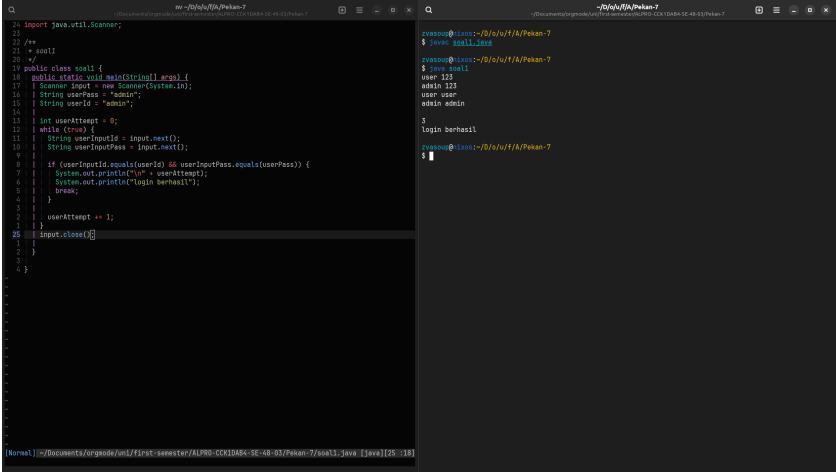


No	Pseudocode	Java Code
1	<div>Program Login</div> <div>Kamus</div> <div>userPass, userId, inputUserId, inputUserPass : string</div> <div>userAttempt : integer</div> <div>Algoritma</div> <div>userPass <- "admin"</div> <div>userId <- "admin"</div> <div>input(inputUserId, inputUserPass)</div> <div>WHILE (true) DO</div> <div>IF (inputUserId == userId && inputUserPass== userPass) THEN</div> <div>output(userAttempt)</div> <div>output("login berhasil")</div> <div>break</div> <div>END IF</div> <div>userAttempt += 1</div> <div>END WHILE</div> <div>Endprogram</div>	

2

Program Pengeluaran

Kamus

totalSaldo, userInput : integer

Algoritma

totalSaldo <- 0

WHILE (true) DO

input(userInput)

IF (userInput == 0) THEN

break

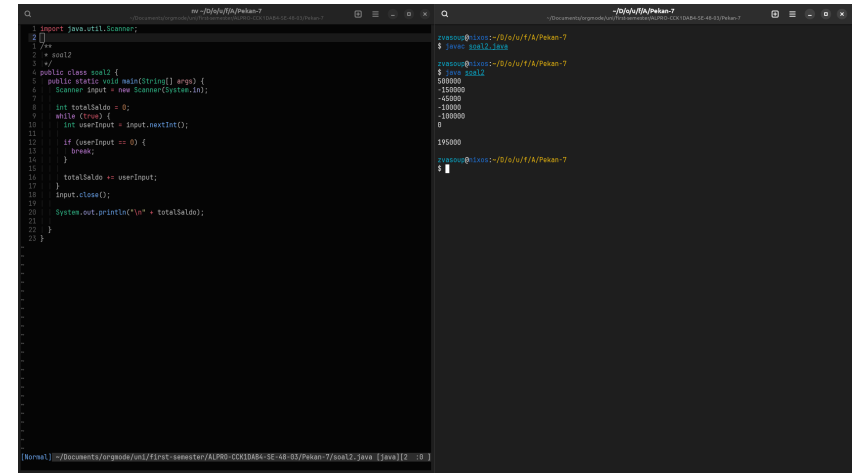
END IF

totalSaldo += userInput

END WHILE

output(totalSaldo)

Endprogram



```
1 import java.util.Scanner;
2
3 //
4 //
5 public class soal2 {
6     public static void main(String[] args) {
7         Scanner input = new Scanner(System.in);
8
9         int totalSaldo = 0;
10        while (true) {
11            int userInput = input.nextInt();
12
13            if (userInput == 0) {
14                break;
15            }
16            totalSaldo += userInput;
17        }
18        input.close();
19
20        System.out.println("totalSaldo: " + totalSaldo);
21    }
22 }
23 }
```

```
23 soal2.java
$ java soal2.java
195000
```

3

Program Digit

Kamus

totalSum, i: integer

totalString, userInput : string

inputChar : character

Algoritma

totalSum <- 0

totalString <- ""

input(userInput)

i <- 1

WHILE (i <= userInput.length()) DO

inputChar <- userInput.charAt(i)

IF (inputChar == '-') THEN

output("Invalid input")

return

END IF

totalString <- inputChar + " " + totalString

totalSum += Character.getNumericValue(inputChar)

i++

END WHILE

output(totalString)

output(totalSum)

Endprogram

```

1 import java.util.Scanner;
2
3 //
4 //
5 //
6 //
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100 //

```

4

Program Cangkir Kopi

Kamus

n, m, x, y, i, totalCoffee : integer

Algoritma

input(n, m, x, y)

totalCoffee <- 0

IF (x <= n && y <= m) THEN

 WHILE (n >= x && m >= y) DO

 n -= x

 m -= y

 totalCoffee += 1

 END WHILE

 output(totalCoffee)

ELSE

 output("Invalid Input")

END IF

Endprogram

```

1 import java.util.Scanner;
2
3 //
4 //
5 //
6 public class soal4 {
7     public static void main(String[] args) {
8         Scanner input = new Scanner(System.in);
9         int n = input.nextInt();
10        int m = input.nextInt();
11        int x = input.nextInt();
12        int y = input.nextInt();
13        int totalCoffee = 0;
14
15        if (x <= n && y <= m) {
16            while (n >= x && m >= y) {
17                n -= x;
18                m -= y;
19                totalCoffee++;
20            }
21            System.out.println(totalCoffee);
22        } else {
23            System.out.println("Invalid Input");
24        }
25    }
26 }

```

Terminal output:

```

$ java soal3.java
$ java soal4.java
$ java soal4
5 9 1 3
10 12 10 12
$ java soal4
10 12 10 12
$ java soal4
20 25 4 2
5
$ java soal4
5 4 10 11
Invalid Input
$

```

5

Program Konsekutif

Kamus

userInput : string

lastCount, inputValue, selisih, i : integer

Algoritma

input(userInput)

IF (Integer.parseInt(userInput < 0) THEN

 output("Invalid input')

 return

END IF

lastCount <- -1

selisih <- 1

i <- 1

WHILE (i <= userInput.length()) DO

 inputValue <- Character.getNumericValue(userInput.charAt(i))

 IF (lastCount != -1) THEN

 selisih <- Math.abs(inputValue – lastCount)

 END IF

 IF (selisih != 1) THEN

 output("Selisih ", lastCount, " dengan ", inputValue, " adalah ", selisih")

 return

 END IF

lastCount <- inputValue

i++

END WHILE

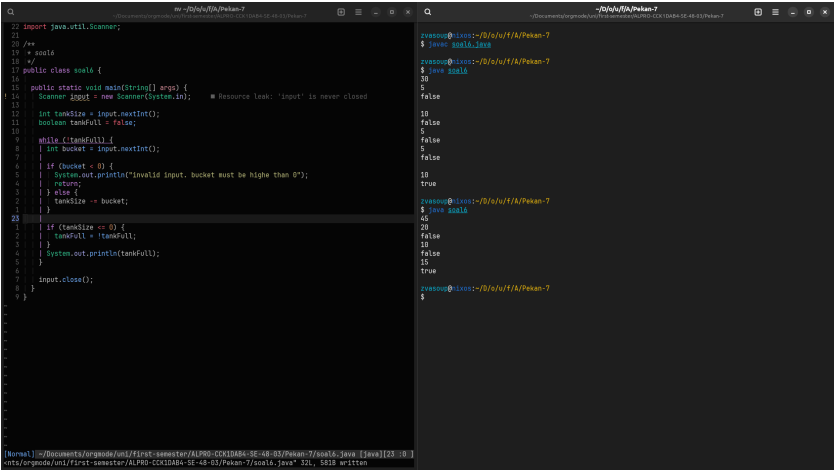
output ("Selisih setiap digit adalah 1")

Endprogram

```

1 import java.util.Scanner;
2
3 //
4 //
5 public class soal5_2 {
6     public static void main(String[] args) {
7         Scanner input = new Scanner(System.in);
8
9         String userInput = input.next();
10        input.close();
11
12        if (Integer.parseInt(userInput) < 0) {
13            System.out.println("Invalid input. Input must be higher than 0");
14            return;
15        }
16
17        int lastCount = -1;
18        int selisih = 1;
19
20        int i = 0;
21        while (i < userInput.length()) {
22            int inputValue = Character.getNumericValue(userInput.charAt(i));
23
24            if (lastCount != -1) {
25                selisih = Math.abs(inputValue - lastCount);
26
27                if (selisih != 1) {
28                    System.out.printf("Selisih %d dengan %d adalah %d", lastCount, inputValue, selisih);
29                    return;
30                }
31            }
32
33            lastCount = inputValue;
34            i++;
35        }
36
37        System.out.println("Selisih setiap digit adalah 1");
38    }
39 }

```

6	<p>Program Tanki Air</p> <p>Kamus</p> <p> tankSize, bucket : integer</p> <p> tankFull : boolean</p> <p>Algoritma</p> <p> input(tankSize)</p> <p> tankFull <- false</p> <p> WHILE (!tankFull) DO</p> <p> input(bucket)</p> <p> IF (bucket < 0) THEN</p> <p> output("invalid input. bucket must be or higher than 0")</p> <p> ELSE</p> <p> tankSize -= bucket</p> <p> END IF</p> <p> IF (tankSize <= 0) THEN</p> <p> tankFull = !tankFull</p> <p> END IF</p> <p> output (tankFull)</p> <p> END WHILE</p> <p>Endprogram</p>	 <pre> 1 import java.util.Scanner; 2 3 // 4 * soal6 5 // 6 public class soal6 { 7 public static void main(String[] args) { 8 Scanner input = new Scanner(System.in); // Resource leak: 'input' is never closed 9 10 int tankSize = input.nextInt(); 11 boolean tankFull = false; 12 13 while (!tankFull) { 14 int bucket = input.nextInt(); 15 16 if (bucket < 0) { 17 System.out.println("invalid input. bucket must be higher than 0"); 18 return; 19 } else { 20 tankSize -= bucket; 21 } 22 23 if (tankSize <= 0) { 24 tankFull = !tankFull; 25 } 26 System.out.println(tankFull); 27 } 28 input.close(); 29 } 30 } </pre> <p>terminal [~/Documents/organisasi/first-semester/ALPRO-CKKIDAB-SE-4B-03/Pekan-7/soal6 Java Task123] 8 --cd ~/organisasi/first-semester/ALPRO-CKKIDAB-SE-4B-03/Pekan-7/soal6.java* 32L, 581B written</p> <pre> 20240903@10:00:~\$ java -D%u%/%Pekan-7 \$ java soal6.java \$ java soal6 \$ false 10 false 5 false 5 false 5 false 10 true 20 false false false 15 true 6 \$ \$ </pre>
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