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## 1. Addition

## Listing

```
import java.util.Scanner;
 3 ∨ public class addition2 {
         Run|Debug|Run main|Debug main
public static void main (String args[])
         Scanner input = new Scanner(System.in);
           int number1;
          int number2;
int sum;
11
          System.out.print(s:"Masukkan angka pertama : ");
12
             number1 = input.nextInt();
13
             System.out.print(s:"Masukkan angka kedua : ");
           number2 = input.nextInt();
15
16
         sum = number1 + number2;
          System.out.println("Jumlahnya : "+sum);
20
21
```

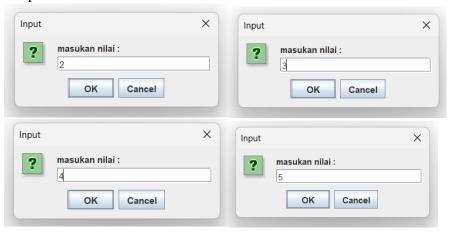
Output

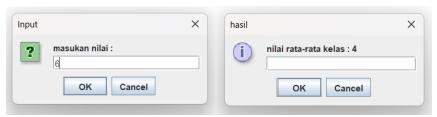
Masukkan angka pertama : 5 Masukkan angka kedua : 3

Jumlahnya: 8

# 2. Average1

# Listing

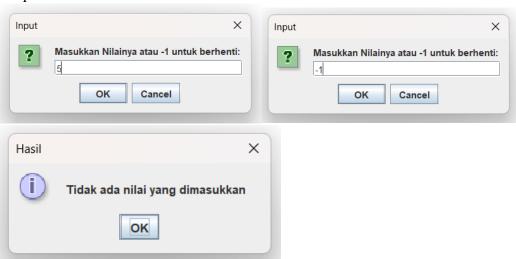




# 3. Average2

# Listing

```
import javax.swing.*;
      v public class Average2 {
    Run|Debug|Run main|Debug main
v    public static void main(String args[]) {
                        int total;
int nilaiCounter;
                        int nilai;
int average;
String nilaiString;
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
                        nilaiCounter = 0;
                        nilaiString = JOptionPane.showInputDialog(
    message:"Masukkan Nilainya atau -1 untuk berhenti: ");
nilai = Integer.parseInt(nilaiString);
                        while (nilai ≠ -1) {
   total = total + nilai;
   nilaiCounter = nilaiCounter + 1;
                                nilaiString = JOptionPane.showInputDialog(
                                message:"Masukkan Nilainya atau -1 untuk berhenti: ");
nilai = Integer.parseInt(nilaiString);
                    if (nilaiCounter ≠ 0) {
   average = total / nilaiCounter;
                                JOptionPane.showMessageDialog(
                                       parentComponent:null,
"Nilai Rata-rata Kelas: " + average,
                                       title: "Hasil",
JOptionPane.INFORMATION_MESSAGE
33
34
35
36
37
38
39
40
41
42
                        } else {
JOptionPane.showMessageDialog(
                                      ntionPane.snowMessageDialog(
parentComponent:null,
message:"Tidak ada nilai yang dimasukkan",
title:"Hasil",
JOptionPane.INFORMATION_MESSAGE
43
44
45
46
47
48
                       System.exit(status:0);
```



# 4. Average3

Listing

```
import javax.swing.*;

public class average3 {
    Run|Debug|Runmain|Debug main
    public static void main(String args[]) {
    int total;
    int nilaicounter;
    int nilai;
    int average;
    String nilaiString;

    total = 0;

for (nilaiCounter = 1; nilaiCounter ≤ 5; nilaiCounter++) {
    // Meminta input nilai dari user
    nilaiString = JOptionPane.showInputDialog(message:"Masukkan Nilainya: ");
    // nilaiString masih dalam bentuk String

    nilai = Integer.parseInt(nilaiString);
    // Mengubah String ke integer menggunakan Integer.parseInt (dari java.lang)
    total = total + nilai;
}

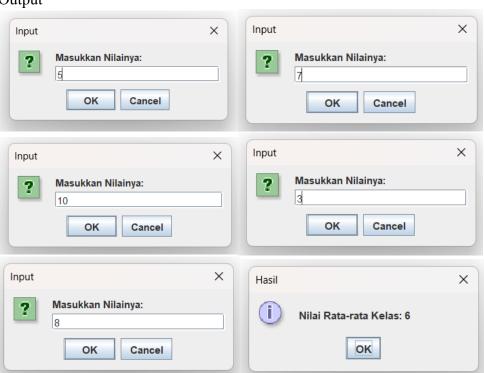
average = total / 5;

JOptionPane.showMessageDialog(
    parentComponent:null,
    "Nilai Rata-rata Kelas: " + average,
    title:"Hasi!",
    JOptionPane.INFORMATION_MESSAGE
);

System.exit(status:0);
}

// Akhir dari class Average3
```

# Output



# 5. IF1

```
1 ∨ public class If1 {
    Run|Debug|Run main|Debug main
2 ∨ public static void main(String args[])
3 ∨ {
    int nilai= 50;
    if (nilai ≥ 60)
    | System.out.println(x:"Lulus");
    System.out.println(x:"Terima kasih");
    }
9
10 }
```

 $azza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25> \delta \ 'C:\Program Files\Java\jdk-21\bin\java.exe' 8ac4a95ce8b86da144a2b5\redhat.java\jdt_ws\rabu-16-4-25_c47bd492\bin' 'If1' Terima kasih$ 

PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25>

#### 6. IF2

# Listing

```
public class If2 {
         Run | Debug | Run main | Debug main
         public static void main(String[] args) {
2
3
             int nilai1 = 50:
 4
             int nilai2 = 75;
5
             if (nilai1 = nilai2)
                 System.out.println(nilai1+" = "+nilai2);
 6
             if (nilai1 ≥ nilai2)
 7
8
                 System.out.println(nilai1+" > "+nilai2);
9
             if (nilai1 ≤ nilai2)
10
                 System.out.println(nilai1+" < "+nilai2);
             if (nilai1 ≠ nilai2)
11
12
                System.out.println(nilai1+" \neq "+nilai2);
13
14
```

### Output

```
PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25>
ceStorage\3a7c7a8bd48ac4a95ce8b86da144a2b5\redhat.java\jdt_ws\rabu-16-4-25_\;
50 <= 75
50 != 75
PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25>
```

#### 7. IF3

# Listing

```
1
     import javax.swing.*;
 3
     public class If11 {
         Run | Debug | Run main | Debug main
 4
         public static void main(String[] args) {
 5
             String a = JOptionPane.showInputDialog(message: "masukan nilaimu!");
 6
              int nilai = Integer.parseInt(a);
 8
             JOptionPane.showInputDialog(parentComponent:null, nilai>60?"selamat":"hasi;",
 9
             JOptionPane.INFORMATION MESSAGE);
10
             System.exit(status:0);
11
12
```



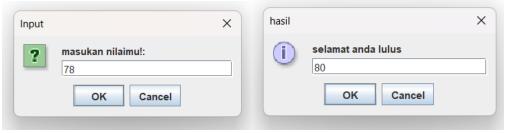
# 8. IF4

Listing

```
import javax.swing.*;

public class If22 {
    Run|Debug|Run main|Debug main
    public static void main(String[] args) {
    String a = JOptionPane.showInputDialog(message: "masukan nilaimu!: ");
    int nilai = Integer.parseInt(a);
    if(nilai>60)
    {
        JOptionPane.showInputDialog(parentComponent:null, message: "selamat anda lulus", title: "hasil",
        JOptionPane.INFORMATION_MESSAGE);
    }
    else
    {
        JOptionPane.showInputDialog(parentComponent:null, message: "maaf anda belum beruntung", title: "hasil",
        JOptionPane.INFORMATION_MESSAGE);
    }
    System.exit(status:0);
}
```

## Output



### 9. IF5

# Listing

```
1 \rightarrow public class If33 {
         Run | Debug | Run main | Debug main
2 ~
         public static void main(String[] args) {
3
             int nilai = 90;
 4
             if (nilai ≥ 90)
                 System.out.println(x: grade : A");
5
 6
             else if (nilai ≥ 80)
 7
                System.out.println(x: grade : B");
8
             else if (nilai ≥ 70)
g
                System.out.println(x: grade : C");
             else if (nilai ≥ 60)
10
11
                System.out.println(x: grade : D");
             else if (nilai ≥ 50)
12
13
            System.out.println(x: grade : D");
14
15
```

#### Output

```
PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25> ceStorage\3a7c7a8bd48ac4a95ce8b86da144a2b5\redhat.java\jdt_ws\rabu-16-4-25_ grade : A PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25>
```

### 10. IF6

```
public class If333 {
         Run | Debug | Run main | Debug main
         public static void main(String[] args) {
2
             int nilai = 81;
 3
             System.out.println(nilai≥90?"Grade : A "
 4
             :(nilai≥80?"Grade : B"
 5
             :(nilai≥70?"Grade : C"
 6
             :(nilai≥60?"Grade : D"
8
             :"Grade : E"))));
9
10
```

```
PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25> ceStorage\3a7c7a8bd48ac4a95ce8b86da144a2b5\redhat.java\jdt_ws\rabu-16-4-25_ Grade : B PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25>
```

## 11. Input1

```
Listing
```

```
import java.io.*;
 2
 3
     public class input {
         Run | Debug | Run main | Debug main
         public static void main(String[] args) {
 4
 5
             trv {
 6
                 String nama;
 7
                  System.out.println(x: "masukan nama anda : ");
 8
                  BufferedReader tulis = new BufferedReader(new InputStreamReader(System.in));
9
                  nama = tulis.readLine();
10
                  System.out.println("nama anda adalah : " + nama);
11
             } catch(IOException ie){
12
                 System.out.println(ie.getMessage());
13
14
15
```

### Output

```
PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25> & ceStorage\3a7c7a8bd48ac4a95ce8b86da144a2b5\redhat.java\jdt_ws\rabu-16-4-25_c47 masukan nama anda : Sheva Meazza nama anda adalah : Sheva Meazza PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25>
```

### 12. Input2

#### Listing

```
1
     import java.io.*;
 2
 3
     public class input2 {
         Run | Debug | Run main | Debug main
         public static void main(String[] args) throws IOException {
 5
             System.out.println(("input bilangan : "));
6
             DataInputStream masukan = (new DataInputStream(System.in));
             int bilangan = Integer.parseInt(masukan.readLine());
8
9
             System.out.println("bilangan yang ada dimasukan : " +bilangan);
10
11
```

## Output

```
PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25> & ceStorage\3a7c7a8bd48ac4a95ce8b86da144a2b5\redhat.java\jdt_ws\rabu-16-4-25_c47 input bilangan : 9 bilangan yang ada dimasukan : 9 PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25>
```

## 13. Input3

```
import javax.swing.*;

public class input3 {
    Run|Debug|Run main|Debug main

public static void main(String[] args) {

String nama;
    nama = JOptionPane.showInputDialog(message:"masukan nama : ");
    System.out.println("nama anda : " + nama);
    JOptionPane.showMessageDialog(parentComponent:null,"nama anda : " + nama);
    System.exit(status:0);
}
```

```
PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25> & ceStorage\3a7c7a8bd48ac4a95ce8b86da144a2b5\redhat.java\jdt_ws\rabu-16-4-25_c47 input bilangan : 9 bilangan yang ada dimasukan : 9 PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25> \[ \]
```

#### 14. Aritmatika

### Listing

```
public class Arimatika {
         Run | Debug | Run main | Debug main
 2
         public static void main(String[] args) {
 3
             int x;
4
             int y;
             x = 15;
             y = 4;
6
             System.out.println("nilai x+y : " + x+y);
             System.out.println("nilai x+y : " + (x-y));
8
             System.out.println("nilai x/y : " + (x/y));
            System.out.println("nilai x/y : " +(x*y));
10
11
12
```

#### Output

```
PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25> & ceStorage\3a7c7a8bd48ac4a95ce8b86da144a2b5\redhat.java\jdt_ws\rabu-16-4-25_c47 nilai x+y : 154 nilai x+y : 11 nilai x/y : 3 nilai x/y : 60 PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25>
```

#### 15. Breaktest

### Listing

```
1
    import javax.swing.JOptionPane;
 3 v public class Breaktest {
         Run | Debug | Run main | Debug main
         public static void main(String args[]) {
 5
             String output = "";
 6
            int count;
             for (count = 1; count ≤ 10; count++) {
 8 ~
 9
                 if (count = 5)
10
                    break:
11
                 output = output + count + " ";
12
             output += "\nBerhenti looping pada count = " + count;
13
14
             JOptionPane.showMessageDialog(parentComponent:null, output);
15
             System.exit(status:0);
16
17
```

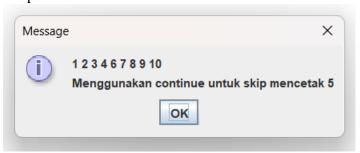


#### 16. ContinueTest

Listing

```
import javax.swing.JOptionPane;
 3 v public class ContinueTest {
 4 ~
         public static void main(String args[]) {
            String output = "";
 6
             int count;
8 ~
             for (count = 1; count \leq 10; count++) {
q
                 if (count = 5)
                  continue;
10
11
                 output = output + count + " ";
12
13
14
15
             output += "\nMenggunakan continue untuk skip mencetak 5";
16
             JOptionPane.showMessageDialog(parentComponent:null, output);
17
             System.exit(status:0);
18
19
20
```

## Output



#### 17. Increment

Listing

```
public class increment {
         Run | Debug | Run main | Debug main
 2
         public static void main(String[] args) {
3
             int a = 4;
 4
            System.out.println(x:"nilai a adalah 4");
5
 6
             System.out.println("nilai a menjadi = "+ (a++));
             System.out.println("nilai a menjadi = "+ (++a));
 7
8
q
             System.out.println();
10
             System.out.println("nilai a menjadi = "+ (a--));
           System.out.println("nilai a menjadi = "+ (--a));
11
12
13
```

#### Output

```
PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25> & ceStorage\3a7c7a8bd48ac4a95ce8b86da144a2b5\redhat.java\jdt_ws\rabu-16-4-25_c47 nilai a adalah 4 nilai a menjadi = 4 nilai a menjadi = 6 nilai a menjadi = 6 nilai a menjadi = 4 PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25>
```

#### 18. Modulus

```
public class modulus {
    Run| Oebug| Run main| Oebug main
    public static void main(String[] args) {
        int bitangan = 25;
        System.out.println("hasil "+bitangan+" % 4 = "+(bitangan % 4));
        System.out.println("hasil "+bitangan+" % 9 = "+(bitangan % 9));
        System.out.println("hasil "+bitangan+" % 13 = "+(bitangan % 13));
        System.out.println("hasil "+bitangan+" % 40 = "+(bitangan % 40));
    }
}

System.out.println("hasil "+bitangan+" % 40 = "+(bitangan % 40));
}
```

```
PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25> & ceStorage\3a7c7a8bd48ac4a95ce8b86da144a2b5\redhat.java\jdt_ws\rabu-16-4-25_c47 hasil 25 % 4 = 1 hasil 25 % 9 = 7 hasil 25 % 13 = 12 hasil 25 % 40 = 25
PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25>
```

#### 19. Relasi

# Listing

```
public class Relasi {
          Run | Debug | Run main | Debug main
         public static void main(String[] args) {
 2
 3
              int A = 10;
 4
              int B = 4;
 5
              System.out.println(x: "Operator Logika");
              System.out.println("A > B = " + (A > B));
 6
              System.out.println("A < B = " + (A < B));
 7
              System.out.println("A = B = " + (A = B));
 8
 9
              System.out.println("A \neq B= " + (A\neqB));
10
11
```

## Output

```
PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25> & ceStorage\3a7c7a8bd48ac4a95ce8b86da144a2b5\redhat.java\jdt_ws\rabu-16-4-25_c4;
Operator Logika
A > B = true
A < B = false
A = B = false
A != B= true
```

PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25>

#### 20. Switch1

#### Listing

```
public interface switch1 {
         Run | Debug | Run main | Debug main
         public static void main(String[] args) {
 2
 3
             int nilai = 2;
 4
              switch (nilai) {
 5
                  case 1:System.out.println(x:"satu"); break;
 6
                  case 2:System.out.println(x:"dua"); break;
                  case 3:System.out.println(x:"tiga"); break;
8
                  default:System.out.println(x:"tidak ada dalam pilihan");
g
10
11
```

#### Output

 $\label{lem:psc:sheva} PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25> ceStorage\3a7c7a8bd48ac4a95ce8b86da144a2b5\redhat.java\jdt_ws\rabu-16-4-25\_dua$ 

PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25>

#### 21. Variable

```
Listing
```

```
1
     public class Variable{
         Run | Debug | Run main | Debug main
         public static void main(String args[]) {
 2
 3
             System.err.println(x:"\nContoh penggunaan variable\n");
 4
             int nilai = 12;
             char karakter = 'b';
 5
             String tulisan = "I Love Java!!!";
 6
             double pecahan = 123.456;
 7
 8
             float pecah = 14.353f;
 9
10
             System.out.println("variable int =" + nilai);
             System.out.println("variable char =" + karakter);
11
             System.out.println("variable string =" + tulisan);
12
             System.out.println("variable float =" +pecah);
13
             System.out.println("variable double =" +pecahan);
14
15
16
```

Output

PROBLEMS 🔒

OUTPUT DEBUG CONSOLE

TERMINAL

PORTS

PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25> & ceStorage\3a7c7a8bd48ac4a95ce8b86da144a2b5\redhat.java\jdt\_ws\rabu-16-4-25\_c4'

Contoh penggunaan variable

```
variable int =12
variable char =b
variable string =I Love Java!!!
variable float =14.353
variable double =123.456
```

PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25>

#### 22. Welcom1

### Listing

#### Output

```
PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25> ceStorage\3a7c7a8bd48ac4a95ce8b86da144a2b5\redhat.java\jdt_ws\rabu-16-4-25_ welcome to java programing!!!
```

PS C:\Users\Sheva Meazza\Documents\Gunadarma\AP2\AP2A\MATKUL\rabu-16-4-25>