

- ①
- False
  - True
  - True
  - True
  - False
  - True
  - True
  - True
  - True
  - True
  - True
  - True
  - True
  - True

- ②
- nilai akhir variabel result adalah 25
  - output program adalah Nilai akhir result: 25
  - kondisi 1:  $x > 5$  benar, selanjutnya cek apakah  $y < 10$ , dan hasilnya benar. Berarti  $result = x + y$
  - kondisi 2 &  $z > 10$  &  $x == 10$  benar, berarti nilai current result ditambah  $z$
  - kondisi 3:  $x == 10$  ||  $y > 10$  ya salah satu benar ( $x == 10$ ) berarti nilai current result ditambah 5
  - kondisi 4:  $!(x < 15 \&\& y < 10)$  berarti pertama cek apakah  $x < 15$  dan  $y < 10$  lalu hasilnya dinegasikan. dampaknya adalah hasilnya menjadi false (in this case), berarti nilai current result dikurangi 10

③

```

"sol3
import java.util.Scanner;

public class sol3 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        System.out.println("masukan tahun: (contoh: 2002)");
        int year = input.nextInt();
        System.out.println("masukan bulan: (tiga huruf, huruf pertama kapital)");
        String month = input.next();
        input.close();

        String[] listMonth = {"Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep",
                               "Oct", "Nov", "Des"};
        int[] totalDays = {31, 29, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31};

        String result = "\nInvalid month. \nin here is the valid month: \n" +
            String.join(", ", listMonth);

        if (year % 4 == 0) {
            totalDays[1] = 29;
        }

        for (int i = 0; i < totalDays.length; i++) {
            if (month.equals(listMonth[i])) {
                result = month + " " + year + " memiliki " + totalDays[i] + " hari ";
            }
        }

        System.out.println(result);
    }
}

```

④ "soala

```
import java.util.Scanner;
```

```
public class soala {
```

```
    public static void main(String[] args) {
```

```
        Scanner input = new Scanner(System.in);
```

```
        System.out.println("masukan true/false: ");
```

```
        String userInput = input.next();
```

```
        input.close();
```

```
        String result = "User input is: ";
```

```
        switch (userInput) {
```

```
            case "true":
```

```
                result += true
```

```
                break;
```

```
            case "false":
```

```
                result += false.
```

```
                break;
```

```
            default:
```

```
                result += "Invalid (only true or false with lowercase)";
```

```
                break;
```

```
        }
```

```
        System.out.println(result);
```

```
    }
```

```
}
```

```
///
```

Nama: Fauzan Zulfa Muhammad (103022400032)

Kelas: SE-48-03

Kode asprak: MNG

| No.        | Answer  |            |           |       |           |      |                              |      |                              |      |                              |       |                       |      |                |      |                          |      |                   |      |  |      |  |      |   |      |             |      |   |      |                       |
|------------|---|------------|-----------|-------|-----------|------|------------------------------|------|------------------------------|------|------------------------------|-------|-----------------------|------|----------------|------|--------------------------|------|-------------------|------|--|------|--|------|---|------|-------------|------|---|------|-----------------------|
| 1.         | <table><tr><th>True/False</th><th>Condition</th></tr><tr><td>false</td><td>intNum &gt;5</td></tr><tr><td>true</td><td>intNum &gt;= 5 &amp;&amp; intOther &lt; 11</td></tr><tr><td>true</td><td>sngNum != -1    intOther &lt; 0</td></tr><tr><td>true</td><td>!(intNum &gt; 3)    intNum &lt;= 5</td></tr><tr><td>false</td><td>!(intOther &gt;= intNum)</td></tr><tr><td>true</td><td>0 - sngNum &gt; 0</td></tr><tr><td>true</td><td>4/2 == intOther / intNum</td></tr><tr><td>true</td><td>intOther % 2 == 0</td></tr><tr><td>true</td><td>intOther + 2 * intNum != 30    !(sngNum &gt; 0)</td></tr><tr><td>true</td><td>intOther &gt; 0 &amp;&amp; intNum &gt; 0    sngNum &gt; 0</td></tr><tr><td>true</td><td>sngNum &gt; 0    (intNum &gt;= 0 &amp;&amp; -1 * intOther == -10)</td></tr><tr><td>true</td><td>intNum == 5</td></tr><tr><td>true</td><td>intNum &gt; 0    (sngnum &lt;= 0 &amp;&amp; intOther == 13)</td></tr><tr><td>true</td><td>!(!(!(intNum &gt; 0 ))))</td></tr></table> | True/False | Condition | false | intNum >5 | true | intNum >= 5 && intOther < 11 | true | sngNum != -1    intOther < 0 | true | !(intNum > 3)    intNum <= 5 | false | !(intOther >= intNum) | true | 0 - sngNum > 0 | true | 4/2 == intOther / intNum | true | intOther % 2 == 0 | true | intOther + 2 * intNum != 30    !(sngNum > 0) | true | intOther > 0 && intNum > 0    sngNum > 0 | true | sngNum > 0    (intNum >= 0 && -1 * intOther == -10) | true | intNum == 5 | true | intNum > 0    (sngnum <= 0 && intOther == 13) | true | !(!(!(intNum > 0 )))) |
| True/False | Condition   |            |           |       |           |      |                              |      |                              |      |                              |       |                       |      |                |      |                          |      |                   |      |  |      |  |      |   |      |             |      |   |      |                       |
| false      | intNum >5   |            |           |       |           |      |                              |      |                              |      |                              |       |                       |      |                |      |                          |      |                   |      |  |      |  |      |   |      |             |      |   |      |                       |
| true       | intNum >= 5 && intOther < 11  |            |           |       |           |      |                              |      |                              |      |                              |       |                       |      |                |      |                          |      |                   |      |  |      |  |      |   |      |             |      |   |      |                       |
| true       | sngNum != -1    intOther < 0  |            |           |       |           |      |                              |      |                              |      |                              |       |                       |      |                |      |                          |      |                   |      |  |      |  |      |   |      |             |      |   |      |                       |
| true       | !(intNum > 3)    intNum <= 5  |            |           |       |           |      |                              |      |                              |      |                              |       |                       |      |                |      |                          |      |                   |      |  |      |  |      |   |      |             |      |   |      |                       |
| false      | !(intOther >= intNum)   |            |           |       |           |      |                              |      |                              |      |                              |       |                       |      |                |      |                          |      |                   |      |  |      |  |      |   |      |             |      |   |      |                       |
| true       | 0 - sngNum > 0  |            |           |       |           |      |                              |      |                              |      |                              |       |                       |      |                |      |                          |      |                   |      |  |      |  |      |   |      |             |      |   |      |                       |
| true       | 4/2 == intOther / intNum  |            |           |       |           |      |                              |      |                              |      |                              |       |                       |      |                |      |                          |      |                   |      |  |      |  |      |   |      |             |      |   |      |                       |
| true       | intOther % 2 == 0   |            |           |       |           |      |                              |      |                              |      |                              |       |                       |      |                |      |                          |      |                   |      |  |      |  |      |   |      |             |      |   |      |                       |
| true       | intOther + 2 * intNum != 30    !(sngNum > 0)  |            |           |       |           |      |                              |      |                              |      |                              |       |                       |      |                |      |                          |      |                   |      |  |      |  |      |   |      |             |      |   |      |                       |
| true       | intOther > 0 && intNum > 0    sngNum > 0  |            |           |       |           |      |                              |      |                              |      |                              |       |                       |      |                |      |                          |      |                   |      |  |      |  |      |   |      |             |      |   |      |                       |
| true       | sngNum > 0    (intNum >= 0 && -1 * intOther == -10)   |            |           |       |           |      |                              |      |                              |      |                              |       |                       |      |                |      |                          |      |                   |      |  |      |  |      |   |      |             |      |   |      |                       |
| true       | intNum == 5   |            |           |       |           |      |                              |      |                              |      |                              |       |                       |      |                |      |                          |      |                   |      |  |      |  |      |   |      |             |      |   |      |                       |
| true       | intNum > 0    (sngnum <= 0 && intOther == 13)   |            |           |       |           |      |                              |      |                              |      |                              |       |                       |      |                |      |                          |      |                   |      |  |      |  |      |   |      |             |      |   |      |                       |
| true       | !(!(!(intNum > 0 ))))   |            |           |       |           |      |                              |      |                              |      |                              |       |                       |      |                |      |                          |      |                   |      |  |      |  |      |   |      |             |      |   |      |                       |
| 2.         | <ul style="list-style-type: none"><li>• Nilai akhir variable result adalah 25</li><li>• Output program adalah: Nilai akhir result: 25</li><li>• Kondisi 1: x &gt; 5 benar, selanjutnya cek apakah y &lt; 10, dan hasilnya benar. Berarti result = x + y</li><li>• Kondisi 2: z &gt; 10 &amp;&amp; x == 10 benar, berarti nilai result ditambah z</li><li>• Kondisi 3: x == 10    y &gt; 10 ya salah satu benar (x == 10) berarti nilai result ditambah 5</li><li>• Kondisi 4: !(x &lt; 15 &amp;&amp; y &lt; 10) berarti pertama cek apakah x kurang dari 15 dan y kurang dari 10 lalu hasilnya di negasikan dampaknya adalah hasilnya jadi false berarti nilai result dikurang 10</li></ul>   |            |           |       |           |      |                              |      |                              |      |                              |       |                       |      |                |      |                          |      |                   |      |  |      |  |      |   |      |             |      |   |      |                       |

3.

```

tmux ~/D/o/u/f/A/Pekan-4
~/Documents/orgmode/uni/first-semester/ALPRO-CCK1DAB4-SE-48-03/Pekan-4
! 21 import java.util.Scanner;
20
19 public class soal3 {
18 | public static void main(String[] args) {
17 | | Scanner input = new Scanner(System.in);
16 | |
15 | | System.out.println("masukan tahun: (contoh: 2002)");
14 | | int year = input.nextInt();
13 | |
12 | | System.out.println("masukan bulan: (tiga huruf, huruf pertama kapital)");
11 | | String month = input.next();
10 | |
9 | | input.close();
8 | |
7 | | String[] listMonth = { "Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep",
6 | | "Oct", "Nov", "Des" };
5 | | int[] totalDays = { 31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31 };
4 | | String result = "\nInvalid Month. \n\nhere is the list of valid month:\n" + String.
3 | | join(" ", listMonth);
2 | |
1 | | if (year % 4 == 0) {
22 | | | totalDays[1] = 29;
1 | | }
1 | |
2 | | for (int i = 0; i < totalDays.length; i++) {
3 | | | if (month.equals(listMonth[i])) {
4 | | | | result = month + " " + year + " memiliki " + totalDays[i] + " hari";
5 | | | }
6 | | }
7 | | System.out.println(result);
8 | |
9 | | }
10 | }

<] ~/Documents/orgmode/uni/first-semester/ALPRO-CCK1DAB4-SE-48-03/Pekan-4/soal3.java[java][22 :0 ]
10 lines yanked
[Session: 1-0]

zvasoup@nixos:~/D/o/u/f/A/Pekan-4
$ javac soal3.java

zvasoup@nixos:~/D/o/u/f/A/Pekan-4
$ java soal3
masukan tahun: (contoh: 2002)
2001
masukan bulan: (tiga huruf, huruf pertama kapital)
Jan
Jan 2001 memiliki 31 hari

zvasoup@nixos:~/D/o/u/f/A/Pekan-4
$ java soal3
masukan tahun: (contoh: 2002)
2004
masukan bulan: (tiga huruf, huruf pertama kapital)
Feb
Feb 2004 memiliki 29 hari

zvasoup@nixos:~/D/o/u/f/A/Pekan-4
$ java soal3
masukan tahun: (contoh: 2002)
2004
masukan bulan: (tiga huruf, huruf pertama kapital)
feb
Invalid Month.

here is the list of valid month:
Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Des

zvasoup@nixos:~/D/o/u/f/A/Pekan-4
$

```

4.

```
tmux ~/D/o/u/f/A/Pekan-4
~/Documents/orgmode/uni/first-semester/ALPRO-CCK1DAB4-SE-48-03/Pekan-4

! 21 import java.util.Scanner;
20
19 public class soal4 {
18 | public static void main(String[] args) {
17 | | Scanner input = new Scanner(System.in);
16 | |
15 | | System.out.println("masukan true/false: ");
14 | | String userInput = input.next();
13 | | input.close();
12 | | String result = "User input is: ";
11 | |
10 | | switch (userInput) {
9 | | | case "true":
8 | | | | result += true;
7 | | | | break;
6 | | |
5 | | | case "false":
4 | | | | result += false;
3 | | | | break;
2 | | |
1 | | | default:
22 | | | | result += "Invalid (only true or false with lowercase)";
1 | | | | break;
2 | | | }
3 | | }
4 | | System.out.println(result);
5 | | }
6 | | }

zvasoup@nixos:~/D/o/u/f/A/Pekan-4
$ javac soal4.java

zvasoup@nixos:~/D/o/u/f/A/Pekan-4
$ java soal4
masukan true/false:
true
User input is: true

zvasoup@nixos:~/D/o/u/f/A/Pekan-4
$ java soal4
masukan true/false:
false
User input is: false

zvasoup@nixos:~/D/o/u/f/A/Pekan-4
$ java soal4
masukan true/false:
True
User input is: Invalid (only true or false with lowercase)

zvasoup@nixos:~/D/o/u/f/A/Pekan-4
$ java soal4
masukan true/false:
@
User input is: Invalid (only true or false with lowercase)

zvasoup@nixos:~/D/o/u/f/A/Pekan-4
$

<] ~/Documents/orgmode/uni/first-semester/ALPRO-CCK1DAB4-SE-48-03/Pekan-4/soal4.java[java][22 :16]
mode/uni/first-semester/ALPRO-CCK1DAB4-SE-48-03/Pekan-4/soal4.java" 28L, 565B written
[Session: 1-0] 1:fish* [top:right]
```