### Tugas Pendahuluan Modul 2

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Link github: <a href="https://github.com/helmiel/pbo/tree/main/tp%20modul%202">https://github.com/helmiel/pbo/tree/main/tp%20modul%202</a>

1. Fibonacci

#### Source code:

```
Fibonacci.java × Matrix.java ×
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
     package com.mycompany.fibonacci;
 6
7 ⊡ import java.util.Scanner;
10
11
   * @author pc
*/
     public class Fibonacci {
public static void main(String[] args) {
           int a,b,temp;
Scanner input = new Scanner(System.in);
16
17
18
            System.out.print("Masukkan n: ");
19
20
            int n = input.nextInt();
20
            a = 0;
b = 1;
21
22
23
24
            for(int i = 1; i <= n; i++) {
            System.out.print(b + " ");
temp = a + b;
27
                a = b;
               b = temp;
29
30
31 }
    }
```

# Output:

```
Masukkan n: 11
1 1 2 3 5 8 13 21 34 55 89

BUILD SUCCESS

Total time: 9.891 s
Finished at: 2024-09-21T15:36:15+07:00
```

### 2. Perkalian Matrix

### Source code:

```
🚳 Fibonacci.java 🗴 🌃 Matrix.java 🗡
4
 2 X Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license x/
                                                                                                         package com.mycompany.matrix;
 7 - import java.util.Scanner;
 9 🖵 /**
   * * @author pc
10
11
12
     public class Matrix {
13
14
15 📮
        public static void main(String[] args) {
           Scanner input = new Scanner(System.in);
16
17
18
            System.out.println("Perkalian Matriks nxn");
19
            System.out.print("n: ");
20
            int n = input.nextInt();
21
22
            int[][] matrixl = new int[n][n];
23
            int[][] matrix2 = new int[n][n];
24
            int[][] matrixHasil = new int[n][n];
25
26
            // input nilai matrixl
27
             System.out.println("Isi matrix 1:");
28
             for (int i = 0; i < n; i++) {
29
                for(int j = 0; j < n; j++) {
30
                   matrixl[i][j] = input.nextInt();
31
```

```
32
33
34
              // input nilai matrix2
             System.out.println("Isi matrix 2:");
35
36
              for(int i = 0; i < n; i++) {
               for(int j = 0; j < n; j++) {
37
                 matrix2[i][j] = input.nextInt();
38
39
                }
40
41
42
             // perkalian matrix nxn
43
             System.out.println("Hasil Perkalian:");
44
              for(int i = 0; i < n; i++) {
45
                 for(int j = 0; j < n; j++) {
46
                    matrixHasil[i][j] = 0;
                     for (int k = 0; k < n; k++) {
47
48
                      matrixHasil[i][j] += matrixl[i][k] * matrix2[k][j];
49
50
                 System.out.print(matrixHasil[i][j] + " ");
51
52
                 System.out.println();
53
55
56
      }
57
```

## Output:

```
Perkalian Matriks nxn
n: 2
Isi matrix 1:
3 -2
4 5
Isi matrix 2:
5 1
-1 2
Hasil Perkalian:
17 -1
15 14

BUILD SUCCESS

Total time: 19.434 s
Finished at: 2024-09-21T15:38:25+07:00
```