

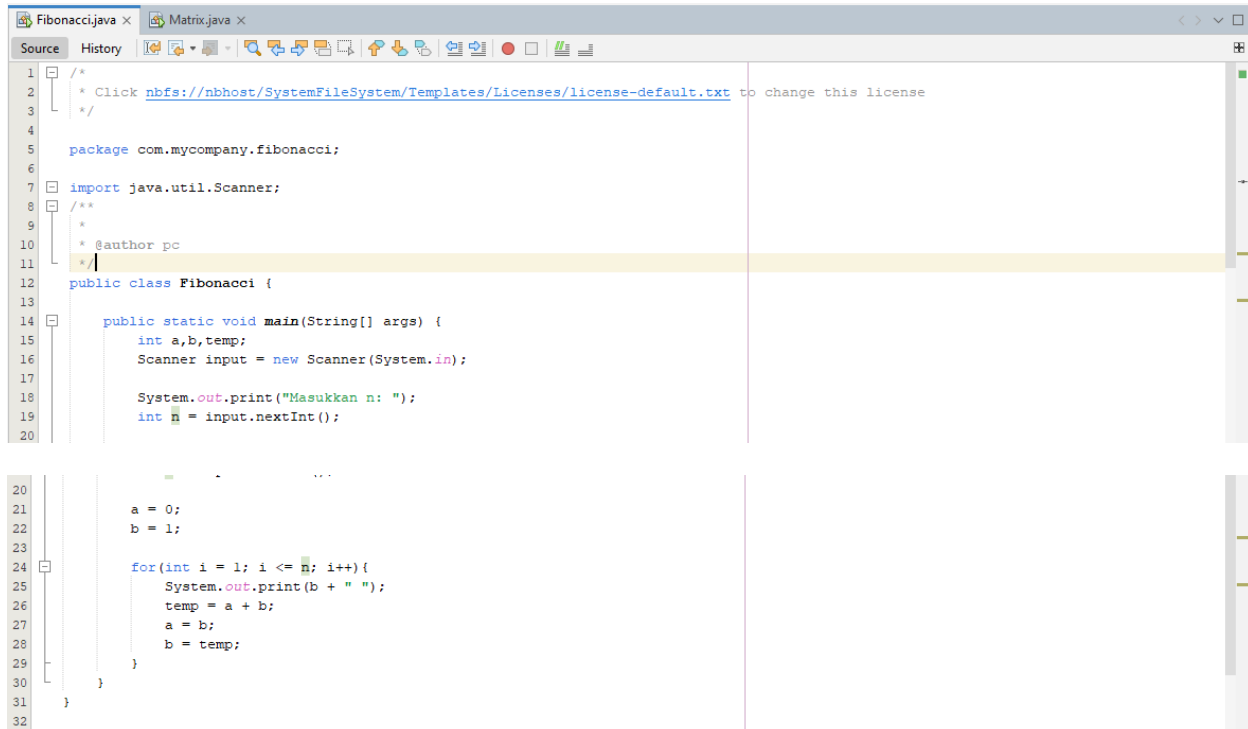
Tugas Pendahuluan Modul 2

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1. Fibonacci

Source code:



```
1  /*
2  * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3  */
4
5  package com.mycompany.fibonacci;
6
7  import java.util.Scanner;
8
9  /**
10   * @author pc
11   */
12  public class Fibonacci {
13
14      public static void main(String[] args) {
15          int a,b,temp;
16          Scanner input = new Scanner(System.in);
17
18          System.out.print("Masukkan n: ");
19          int n = input.nextInt();
20
21          a = 0;
22          b = 1;
23
24          for(int i = 1; i <= n; i++){
25              System.out.print(b + " ");
26              temp = a + b;
27              a = b;
28              b = temp;
29          }
30      }
31  }
```

Output:

```
-
Masukkan n: 6
- 1 1 2 3 5 8
-----
BUILD SUCCESS
-----
Total time: 01:48 min
Finished at: 2024-09-21T15:35:26+07:00
-----
```

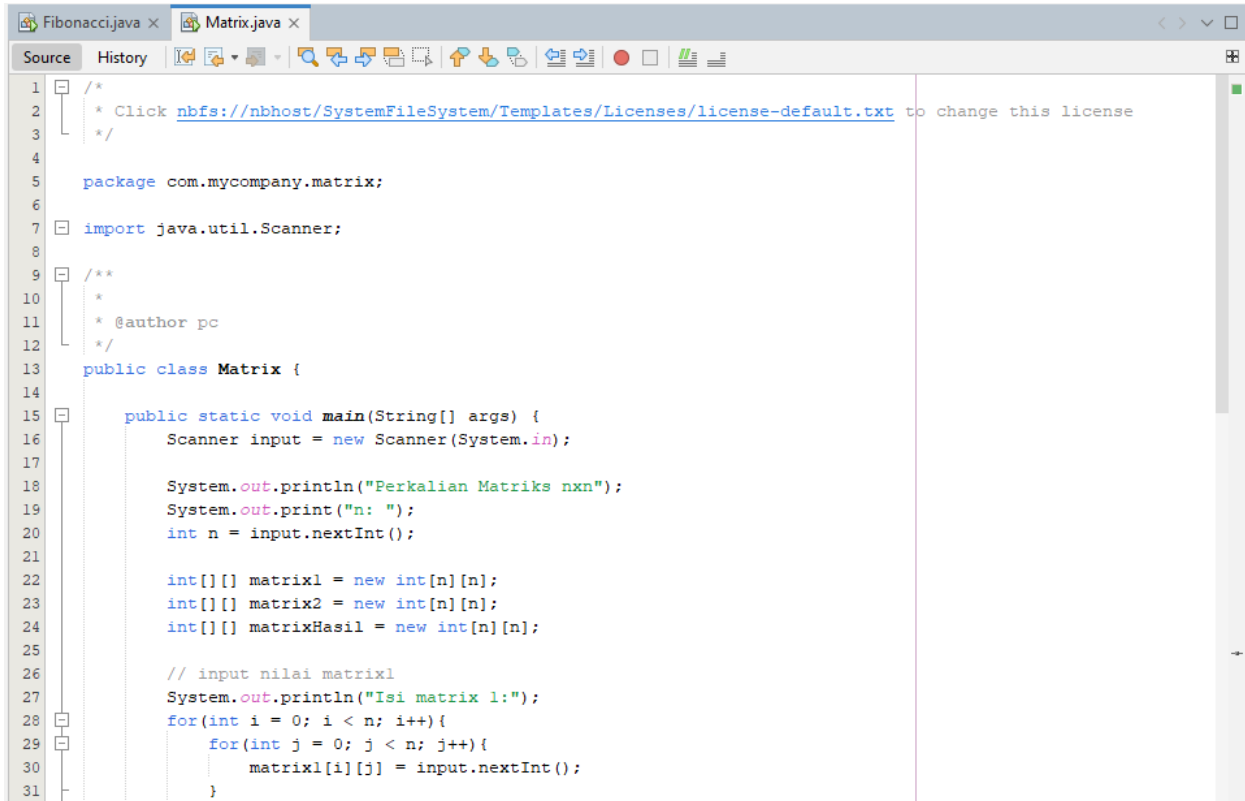
```
Masukkan n: 11
1 1 2 3 5 8 13 21 34 55 89
```

```
-----
BUILD SUCCESS
-----
```

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

2. Perkalian Matrix

Source code:



```
1  /*
2  * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3  */
4
5  package com.mycompany.matrix;
6
7  import java.util.Scanner;
8
9  /**
10   *
11   * @author pc
12   */
13  public class Matrix {
14
15      public static void main(String[] args) {
16          Scanner input = new Scanner(System.in);
17
18          System.out.println("Perkalian Matriks nxn");
19          System.out.print("n: ");
20          int n = input.nextInt();
21
22          int[][] matrix1 = new int[n][n];
23          int[][] matrix2 = new int[n][n];
24          int[][] matrixHasil = new int[n][n];
25
26          // input nilai matrix1
27          System.out.println("Isi matrix 1:");
28          for(int i = 0; i < n; i++){
29              for(int j = 0; j < n; j++){
30                  matrix1[i][j] = input.nextInt();
31              }
```

```

31     }
32 }
33
34 // input nilai matrix2
35 System.out.println("Isi matrix 2:");
36 for(int i = 0; i < n; i++){
37     for(int j = 0; j < n; j++){
38         matrix2[i][j] = input.nextInt();
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;
47         for(int k = 0; k < n; k++){
48             matrixHasil[i][j] += matrix1[i][k] * matrix2[k][j];
49         }
50         System.out.print(matrixHasil[i][j] + " ");
51     }
52     System.out.println();
53 }
54 }
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
-----
|

```