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## TP MOD 2 PBO

## 1. Fibbonaci

```
Tpmod2.java ×
6  import java.util.Scanner;
7 - /**
8
      * @author valdez
   L */
10
11
    public class Tpmod2 {
12
13 -
        public static void main(String[] args) {
14
15
            Scanner input = new Scanner(System.in);
16
               System.out.print("Masukkan n : ");
17
18
               n = input.nextInt();
19
            } while (n <= 0); // Looping sampai input valid (n > 0)
20
            int a = 1, b = 1;
21 =
            for (int i = 1; i <= n; i++) {
22
               System.out.print(a+" ");
23
               int temp = a + b;
24
               a = b;
25
               b = temp;
26
27
28
29
```

## Hasil Eksekusi:

```
--- exec:3.1.0:exec (default-cli) @ tpmod2 ---

Masukkan n : 0

Masukkan n : 6
= 1 1 2 3 5 8

--- exec:3.1.0:exec (default-cli) @ tpmod2 ---

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

BUILD SUCCESS

Total time: 5.982 s
Finished at: 2024-09-22T22:22:24+07:00
```

## 2. Perkalian Matriks

```
package valdez.tpmod2;
☐ import java.util.Scanner;
- /**
   * @author valdez
  */
  public class Tpmod2 {
      public static void main(String[] args) {
          Scanner input = new Scanner(System.in);
          System.out.println("Perkalian Matriks n x n ");
          System.out.print("n: ");
          int n = input.nextInt();
          int[][] matrix1 = new int[n][n];
          int[][] matrix2 = new int[n][n];
          int[][] hasil = new int[n][n];
          System.out.println("Matriks 1: ");
          for (int i = 0; i < n; i++) {
              for (int j = 0; j < n; j++) {
                 System.out.print("Matriks 1[" + i + "][" + j + "] = ");
                  matrix1[i][j] = input.nextInt();
          System.out.println("Matriks 2: ");
          for (int i = 0; i < n; i++) {
              for (int j = 0; j < n; j++) {
                System.out.print("Matriks 2[" + i + "][" + j + "] = ");
                 matrix2[i][j] = input.nextInt();
```

```
}
      for (int i = 0; i < n; i++) {
          for (int j = 0; j < n; j++) {
             hasil[i][j] = 0;
              for (int k = 0; k < n; k++) {
              hasil[i][j] += matrix1[i][k] * matrix2[k][j];
          }
      // Menampilkan matriks pertama
      System.out.println("\nMatriks pertama:");
      printMatrix(matrix1, n);
      // Menampilkan matriks kedua
      System.out.println("\nMatriks kedua:");
printMatrix(matrix2, n);
      // Menampilkan matriks hasil perkalian
      System.out.println("\nHasil perkalian matriks:");
      printMatrix(hasil, n);
  public static void printMatrix(int[][] matrix, int n) {
      for (int i = 0; i < n; i++) {
              for (int j = 0; j < n; j++) {
                  System.out.print(matrix[i][j] + " ");
              System.out.println();
```

}

```
Hasil Eksekusi:
```

```
--- compiler:3.11.0:compile (default-compile) @ tpmod2 ---
 Changes detected - recompiling the module! :source
 Compiling 1 source file with javac [debug target 22] to target\classes
--- exec:3.1.0:exec (default-cli) @ tpmod2 ---
 Perkalian Matriks n x n
 n: 2
 Matriks 1:
 Matriks 1[0][0] = 3
 Matriks 1[0][1] = -2
 Matriks 1[1][0] = 4
 Matriks 1[1][1] = 5
 Matriks 2:
 Matriks 2[0][0] = 5
 Matriks 2[0][1] = 1
 Matriks 2[1][0] = -1
 Matriks 2[1][1] = 2
 Matriks pertama:
 3 -2
 Matriks kedua:
 5 1
 -1 2
 Hasil perkalian matriks:
 17 -1
  ______
 BUILD SUCCESS
 Total time: 39.195 s
```

Finished at: 2024-09-22T22:59:36+07:00