

TUGAS PRAKTIKUM
ALGORITMA DAN PEMROGRAMAN
TUGAS NESTED FOR JAVA



Disusun oleh:

Ghinada Fathanawafa Algma
2511533008

Dosen Pengampu:
Dr. Wahyudi S.T. M.T

Asisten Praktikum:
Rahmad Dwirizki Olders

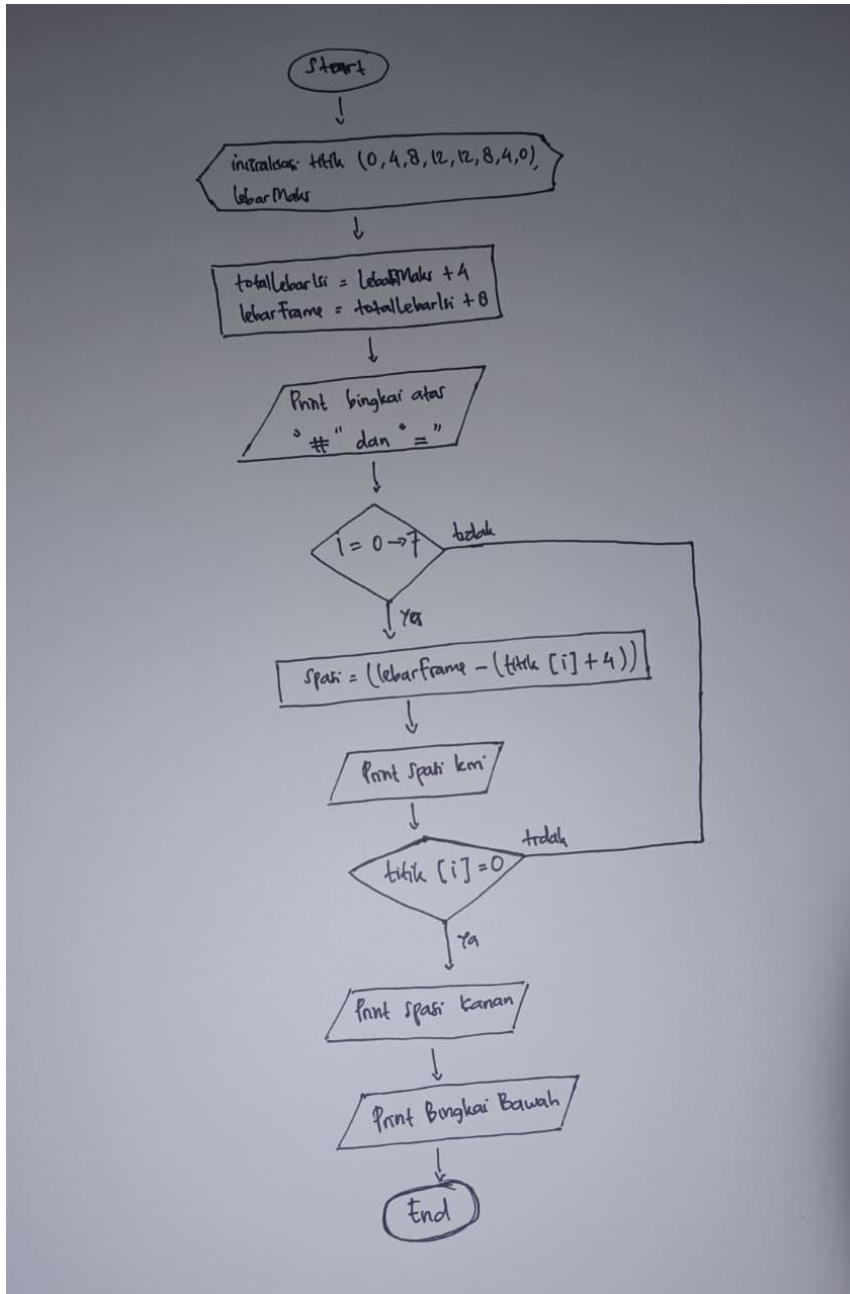
DEPARTEMEN INFORMATIKA
FAKULTAS TEKNOLOGI INFORMASI
UNIVERSITAS ANDALAS

2025

Pseudocode

Judul Tugas Nested For
Deklarasi Int titik, lebarMaks, totalLebarIsi, lebarFrame
Pseudocode <ol style="list-style-type: none">totalLebarIsi = lebarMaks + 4 lebarFrame = totalLebarIsi + 8print bingkai atas “#” , “=”i = 0 → 7 ?ya : spasi = (lebarFrame – (titik [i] + 4)) print spasi kiritidak : titik [i] = 0 ?ya : print spasi kanantidak : back to langkah 3print bingkai bawah

Flowchart



Gambar 1 Flowchart

Kode Program

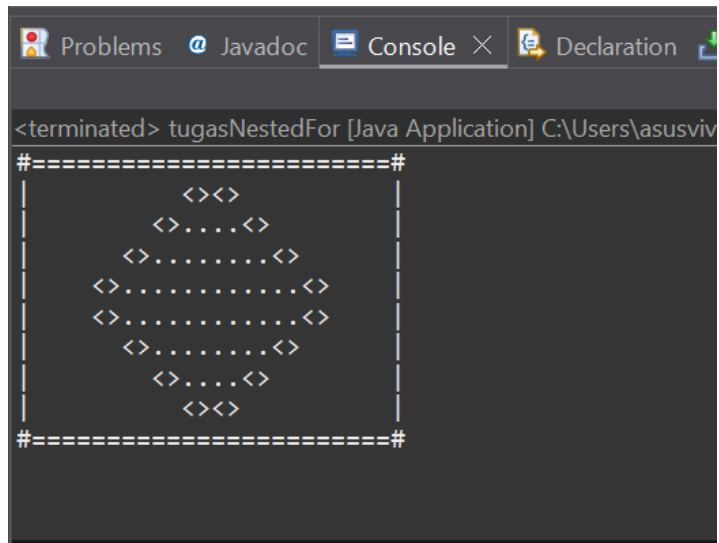
```
1 package pekan5;
2
3 public class tugasNestedFor {
4
5     public static void main(String[] args) {
6         int[] titik = {0, 4, 8, 12, 12, 8, 4, 0};
7         int lebarMaks = 12;
8         int totalLebarIsi = lebarMaks + 4;
9         int lebarFrame = totalLebarIsi + 8;
10
11         System.out.print("#");
12         for (int i = 0; i < lebarFrame; i++) {
13             System.out.print("=");
14         }
15         System.out.println("#");
16
17         for (int i = 0; i < titik.length; i++) {
18             System.out.print("|");
19
20             int spasi = (lebarFrame - (titik[i] + 4)) / 2;
21             for (int s = 0; s < spasi; s++) {
22                 System.out.print(" ");
23             }
24
25             if (titik[i] == 0) {
26                 System.out.print("<><>");
27             } else {
28                 System.out.print("<>");
29                 for (int j = 0; j < titik[i]; j++) {
30                     System.out.print(".");
31                 }
32                 System.out.print("<>");
33             }
34
35             for (int s = 0; s < spasi; s++) {
36                 System.out.print(" ");
```

Kode Program 1

```
37         }
38
39         System.out.println("|");
40     }
41
42     System.out.print("#");
43     for (int i = 0; i < lebarFrame; i++) {
44         System.out.print("=");
45     }
46     System.out.println("#");
47 }
48
49
50
```

Kode Program 2

Hasil Output



```
<terminated> tugasNestedFor [Java Application] C:\Users\asusviv
#=====#
|               |
|   <><>         |
|   <>...<>      |
|   <>.....<>   |
|   <>.....<>   |
|   <>.....<>   |
|   <>.....<>   |
|   <>...<>      |
|   <><>         |
|               |
#=====#
```

Gambar 2 Hasil Output dari kode program