# LAPORAN TUGAS
# ALGORITMA PEMROGRAMAN

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# TUGAS PEKAN 5  ALGORITMA DAN PEMROGRAMAN

## A. Code Program

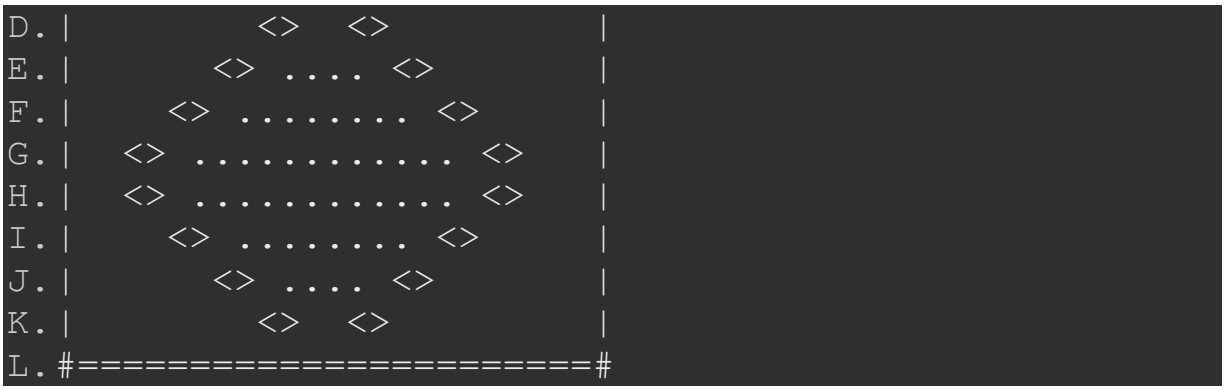
Berikut adalah program java untuk TugasPekan5

```
package Pekan5;

public class tugasPekan5 {
    public static void main(String[] args) {
        int n = 4;
        int width = 23;

        System.out.print("#");
        for (int i = 0; i < width; i++) {
            System.out.print("=");
        }
        System.out.println("#");

        for (int i = 1; i <= n; i++) {
            System.out.print("|");

            for (int j = 1; j < (n - i) * 2 + 2; j++) {
                System.out.print(" ");
            }

            System.out.print(" <> ");

            for (int j = 1; j < i; j++) {
                System.out.print("....");
            }

            System.out.print(" <> ");

            for (int j = 1; j <= (n - i) * 2 + 2; j++)
{
                System.out.print(" ");
            }

            System.out.println("|");
        }
```

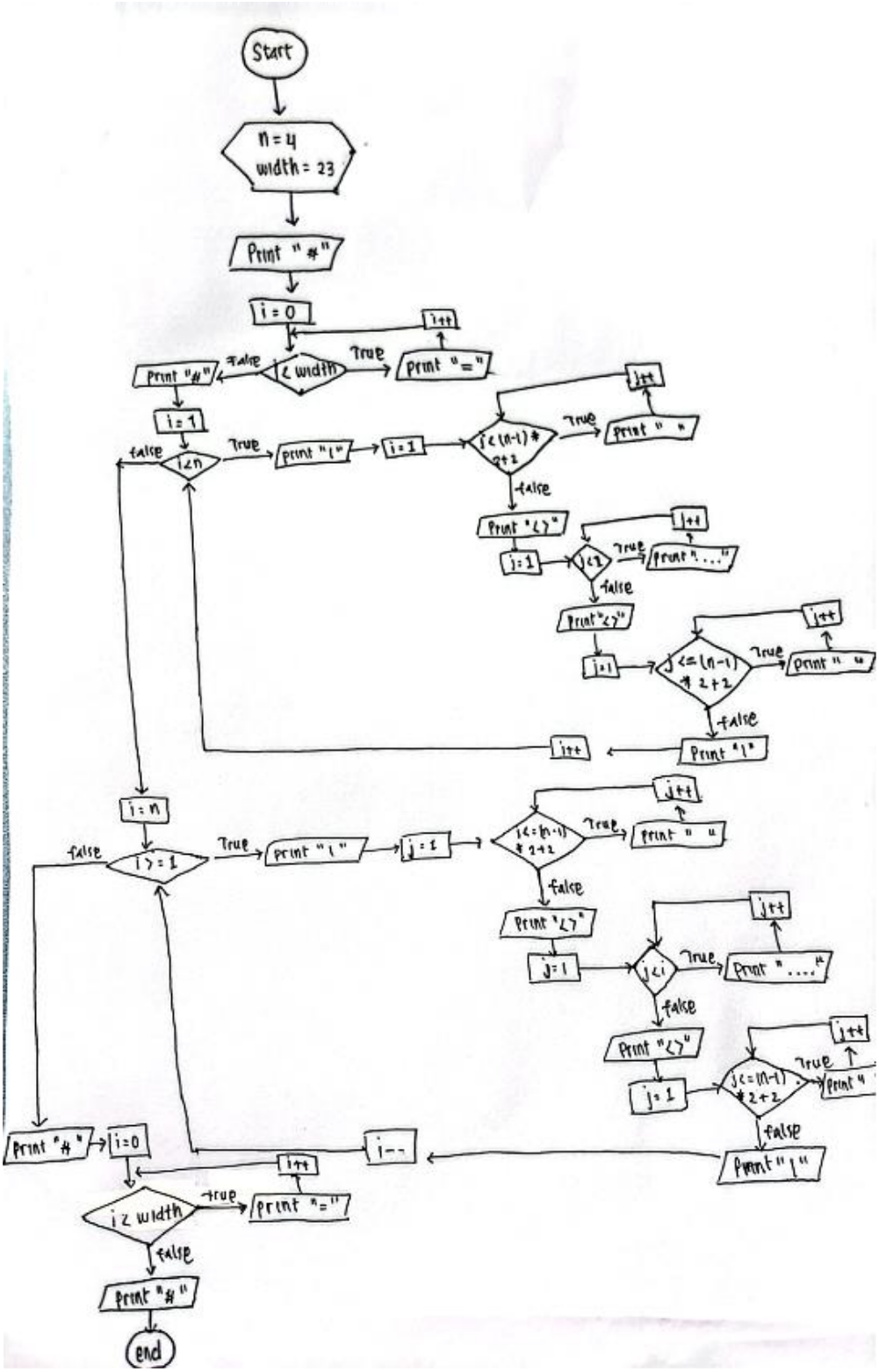
```
        for (int i = n; i >= 1; i--) {
            System.out.print("|");

            for (int j = 1; j <= (n - i) * 2 + 2; j++)
{
                System.out.print(" ");
            }

            System.out.print("<> ");

            for (int j = 1; j < i; j++) {
                System.out.print("....");
            }

            System.out.print(" <>");

            for (int j = 1; j <= (n - i) * 2 + 2; j++)
{
                System.out.print(" ");
            }

            System.out.println(" |");
        }

        System.out.print("#");
        for (int i = 0; i < width; i++) {
            System.out.print("=");
        }
        System.out.println("#");
    }
}
```

**B. Output**

```
C.#======================#
```




**C. Flowchart**




**D. Pseudocode**

**Judul**

Program menampilkan pola simetris dengan paduan simbol "<>" dan "…." di dalam frame

**Deklarasi**

n, width ; int
i, j ; int

**Algoritma**

1. Read (n, width)
2. Print "#"
3. For i ← 0
   3.1.If i < width
   3.2.Print "="
   3.3.end if
4. end for
5. Print "#"
6. For i ← 1
   6.1.If i < n
   6.2.Print " | "
   6.3.End if
   6.4.For j ← 1
   6.5.If j < (n-1) * 2 + 2
   6.6.Print " "
   6.7.End if and for
   6.8. Print "<>"
   6.9.For j ← 1
   6.10. If j < 1
   6.11. Print " …."
   6.12. End if and for
   6.13. Print " <>"
   6.14. For j ← 1
   6.15. If j <= (n-1) * 2 + 2
   6.16. Print " "
   6.17. End if and for
   6.18. Print " | "

7. End for
8. For i←n
   8.1.If i >= 1
   8.2.Print " | "
   8.3.End if
   8.4.For j←1
   8.5.If j <= (n-1) * 2 + 2
   8.6.Print " "
   8.7.End if and for
   8.8.Print "<>"
   8.9. For j←1
   8.10. If j<i

8.11. Print "…."
8.12. End if and for
8.13. Print "<>"
8.14. For j←1
8.15. If j<= (n-1) * 2 + 2
8.16. Print " "
8.17. End if and for
8.18. Print " | "
9. End for
10. Print "#"
11. For i←0
11.1. If i<width
11.2. Print "="
11.3. End if
12. End for
13. Print "#"
14. End