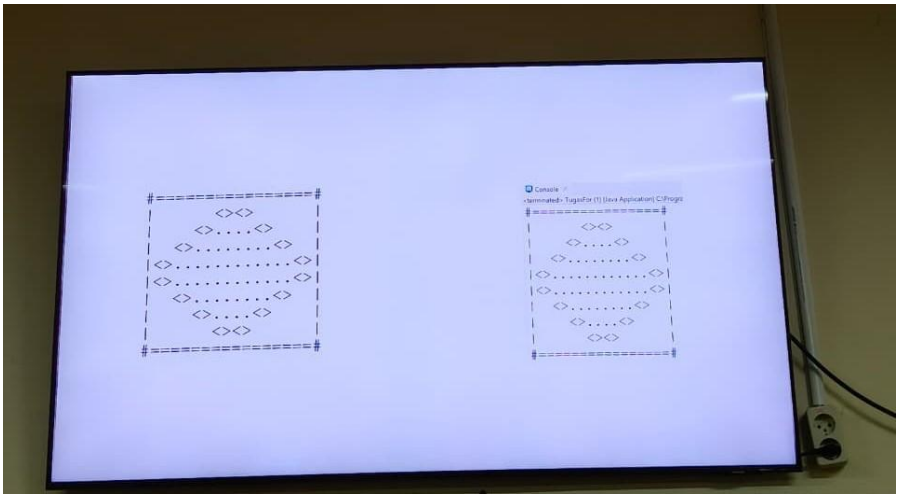


BUATKAN PROGRAM JAVA DARI OUTPUT BERIKUT, BUAT JUGA BAHASA NATURALNYA, FLOWCHARTNYA (TULIS TANGAN), PSEUDOCODENYA

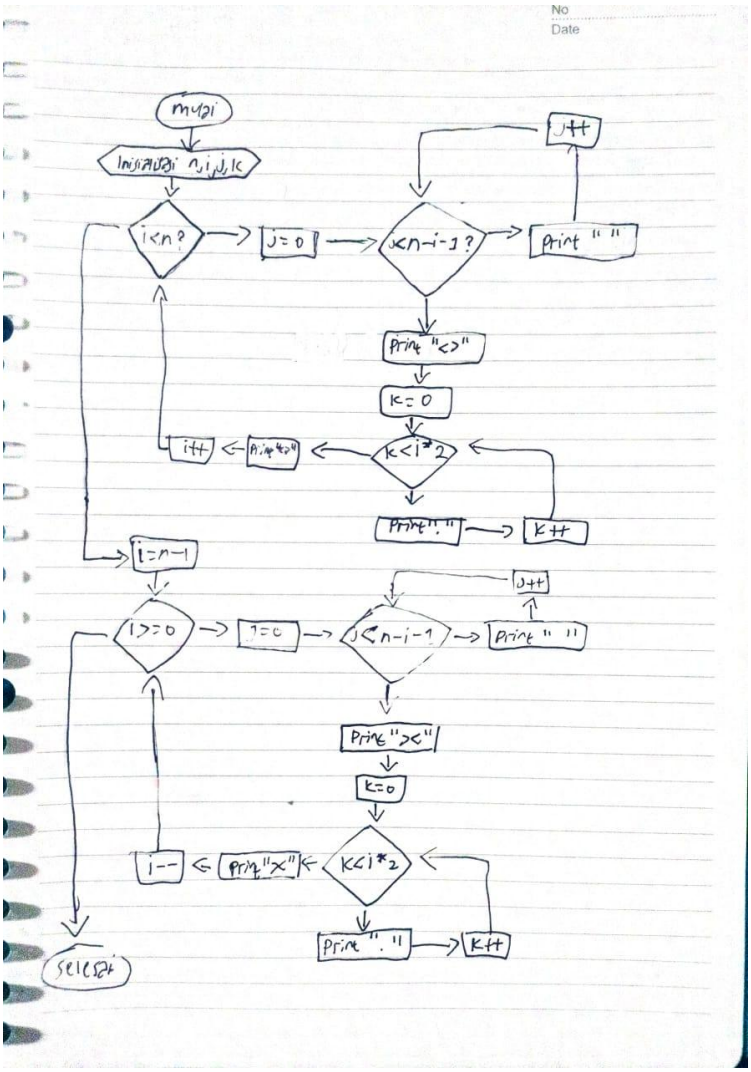
BAHASA NATURAL

1. Mulai.
2. Inisialisasi variabel n, i, j, dan k.
3. Cetak garis atas:
   - Cetak #
   - Lakukan for (j = 1; j <= lebar; j++) → cetak "-"
   - Cetak # dan ganti baris
4. Bentuk bagian atas pola berlian:
   - Lakukan for (i = 1; i <= n; i++)
   - Cetak |
   - Lakukan for (j = 1; j <= n - i; j++) → cetak " "
   - Cetak "<>"
   - Lakukan for (k = 1; k <= (i - 1) * 2; k++) → cetak "."
   - Cetak "<>"
   - Lakukan for (j = 1; j <= n - i; j++) → cetak " "
   - Cetak |
   - Ganti baris
5. Bentuk bagian bawah pola berlian:
   - Lakukan for (i = n - 1; i >= 1; i--)
   - Cetak |
   - Lakukan for (j = 1; j <= n - i; j++) → cetak " "
   - Cetak "<>"
   - Lakukan for (k = 1; k <= (i - 1) * 2; k++) → cetak "."
   - Cetak "<>"

- Lakukan for (j = 1; j <= n - i; j++) → cetak " "
- Cetak |
- Ganti baris

6. Cetak garis bawah:
   - Cetak #
   - Lakukan for (j = 1; j <= lebar; j++) → cetak "-"
   - Cetak # dan ganti baris
7. Selesai

FLOWCHART



PSEUDOCODE

1. START
2. Inisialisasi variabel:
   n = 4
   i = 0
   j = 0
   k = 0
3. WHILE i < n DO
   3.1. j = 0
   3.2. WHILE j < n - i - 1 DO
        PRINT " "
        j = j + 1
   3.3. END WHILE
   3.4. PRINT "<>"
   3.5. k = 0
   3.6. WHILE k < i * 2 DO
        PRINT "."
        k = k + 1
   3.7. END WHILE
   3.8. PRINT "<>"
   3.9. PRINT NEWLINE
   3.10. i = i + 1
4. END WHILE
5. i = n - 1
6. WHILE i >= 0 DO
   6.1. j = 0
   6.2. WHILE j < n - i - 1 DO
        PRINT " "
        j = j + 1
   6.3. END WHILE
   6.4. PRINT "<>"
   6.5. k = 0
   6.6. WHILE k < i * 2 DO
        PRINT "."
        k = k + 1
   6.7. END WHILE
   6.8. PRINT "<>"
   6.9. PRINT NEWLINE
   6.10. i = i - 1
7. END WHILE
8. END

PROGRAM DALAM JAVA

```
public static void main(String[] args) {
        int n = 4;
        int lebar = 4 + (n - 1) * 2;

        System.out.print("#");
        for (int j = 1; j <= lebar; j++) {
            System.out.print("-");
        }
        System.out.println("#");

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

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

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

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

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

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

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

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

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

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

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

    System.out.print("#");
    for (int j = 1; j <= lebar; j++) {
        System.out.print("-");
    }
    System.out.println("#");
  }
}
```