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**FUNGSI REKURSIF CHEBYSHEV**

- SOURCE CODE

```
5   L  */
6      package modul8;
7
8   ⊟ import java.util.Scanner;
9
10  ⊟ /**
11     *
12     * @author ASUS
13   L */
14     public class rekursifchebyshev {
15
16  ⊟     public static void main(String[] args) {
17             double a, n, x;
18
19             Scanner in = new Scanner(System.in);
20             System.out.print("Masukkan nilai a\t\t: ");
21             a = in.nextDouble();
22             System.out.print("Masukkan nilai x\t\t: ");
23             x = in.nextDouble();
24             System.out.print("Masukkan nilai pangkat n\t: ");
25             n = in.nextDouble();
26
27             System.out.println("");
28             System.out.println("Fungsi rekursif Chebyshev nya adalah : " + chebyshev(a, x, n));
29
30   L     }
31
32  ⊟     public static double chebyshev(double a, double x, double n) {
33             if (n == 0) {
34                 return n;
35
36             } else {
```

```java
 * @author ASUS
 */
public class rekursifchebyshev {

    public static void main(String[] args) {
        double a, n, x;

        Scanner in = new Scanner(System.in);
        System.out.print("Masukkan nilai a\t\t: ");
        a = in.nextDouble();
        System.out.print("Masukkan nilai x\t\t: ");
        x = in.nextDouble();
        System.out.print("Masukkan nilai pangkat n\t: ");
        n = in.nextDouble();

        System.out.println("");
        System.out.println("Fungsi rekursif Chebyshev nya adalah : " + chebyshev(a, x, n));

    }

    public static double chebyshev(double a, double x, double n) {
        if (n == 0) {
            return n;

        } else {
            return a * n * Math.pow(x, n) + chebyshev(a, x, (n - 1));

        }

    }
}
```

- OUTPUT

**Output - MODUL8 (run)**

```
run:
Masukkan nilai a                : 5
Masukkan nilai x                : 7
Masukkan nilai pangkat n        : 4

Fungsi rekursif Chebyshev nya adalah : 53690.0
BUILD SUCCESSFUL (total time: 19 seconds)
```