Java Pattern Programs - Learn How to Print Pattern in Java

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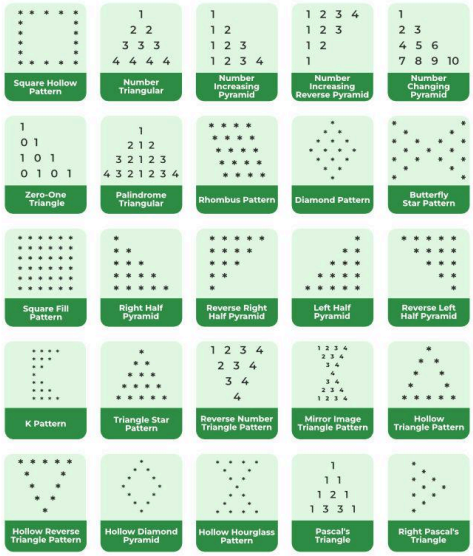
In many Java interviews **Star, number,** and **character patterns** are the most asked **Java Pattern Programs** to check your logical and coding skills. **Pattern programs in Java** help you to sharpen your looping concepts (especially for loop) and problem-solving skills in Java. If you are looking for a place to get all the **Java pattern programs with solutions**, stop your search here.

Here, we have compiled a **top pattern exercises on Java.**

Prerequisite: Remember that to learn pattern programs, you must know Java Loops (for, while, do-while) and basic syntax.



Patterns Programs in Java

Java Pattern Programs

Here, you will find the top 25 Java pattern programs with their proper code and explanation.

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All Pattern Programs in Java are mentioned below:

1. Square Hollow Pattern

This program prints a square where the border is filled with stars (*), and the inside is hollow (filled with spaces).

```
// Java Program to print pattern
```

```java
// Square hollow pattern
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;

        // outer loop to handle number of rows
        for (i = 0; i < n; i++) {

            //  inner loop to handle number of columns
            for (j = 0; j < n; j++) {

                // star will print only when  it is in first
                // row or last row or first column or last
                // column
                if (i == 0 || j == 0 || i == n - 1
                    || j == n - 1) {
                    System.out.print("*");
                }

                // otherwise print space only
                else {
                    System.out.print(" ");
                }
            }
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
******
*    *
*    *
*    *
*    *
******
```

Related searches

Java Pattern Programs Pdf | How to Write Pattern Program in Java

2. Number Triangle Pattern

Prints a right-angled triangle with numbers in increasing row order, aligned to the right.

```
// Java Program to print pattern
// Number triangle pattern
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;
```

```
        // outer loop to handle number of rows
        for (i = 1; i <= n; i++) {

            // inner loop to print space
            for (j = 1; j <= n - i; j++) {
                System.out.print(" ");
            }

            // inner loop to print star
            for (j = 1; j <= i; j++) {
                System.out.print(i + " ");
            }

            // print new line for each row
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
     1
    2 2
   3 3 3
  4 4 4 4
 5 5 5 5 5
6 6 6 6 6 6
```

3. Number-Increasing Pyramid Pattern

Prints a pyramid where each row contains numbers from 1 to the row number.

```java
// Java Program to print pattern
// Number-increasing pyramid
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;

        // outer loop to handle number of rows
        for (i = 1; i <= n; i++) {

            // inner loop to handle number of columns
            for (j = 1; j <= i; j++) {

                // printing column values
                // upto the row value
                System.out.print(j + " ");
            }

            // print new line for each row
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
1
1 2
1 2 3
```

```
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6
```

4. Number-Increasing Reverse Pyramid Pattern

This is a reverse pyramid where each row starts from 1 and ends at the row count, in decreasing number of elements.

```java
// Java Program to print pattern
// Number-increasing reverse pyramid
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;

        // outer loop to handle number of rows
        for (i = n; i >= 1; i--) {

            // inner loop to handle number of columns
            for (j = 1; j <= i; j++) {

                // printing column values
                // upto the row value
                System.out.print(j + " ");
            }

            // print new line for each row
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
```

```
        printPattern(n);
    }
}
```

Output

```
1 2 3 4 5 6
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
```

5. Number-Changing Pyramid Pattern

Prints a pyramid where numbers increase continuously from top to bottom.

```
// Java Program to print pattern
// Number-changing pyramid
import java.util.*;

// Java code for printing pattern
public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;
        int num = 1;

        // outer loop to handle number of rows
        for (i = 1; i <= n; i++) {

            // inner loop to handle number of columns
            for (j = 1; j <= i; j++) {

                // printing value of num in each iteration
                System.out.print(num + " ");
```

```
                // increasing the value of num
                num++;
            }

            // printing new line for each row
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
16 17 18 19 20 21
```

6. Zero-One Triangle Pattern

Prints a triangle where each number alternates between 1 and 0 based on the position.

```
// Java Program to print pattern
// Zero-One triangle
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
```

```
    {
        int i, j;

        //outer loop to handle number of rows
        for (i = 1; i <= n; i++) {

            //inner loop to handle number of columns
            for (j = 1; j <= i; j++) {

                // if the sum of (i+j) is even then print 1
                if ((i + j) % 2 == 0) {
                    System.out.print(1 + " ");
                }
                // otherwise print 0
                else {
                    System.out.print(0 + " ");
                }
            }

            //printing new line for each row
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
1
0 1
1 0 1
0 1 0 1
1 0 1 0 1
0 1 0 1 0 1
```

7. Palindrome Triangle Pattern

Prints a triangle with mirrored numbers forming a palindrome on each row.

```java
// Java Program to print pattern
// Palindrome triangle
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;

        // outer loop to handle number of rows
        for (i = 1; i <= n; i++) {

            // inner loop to print the spaces
            for (j = 1; j <= 2 * (n - i); j++) {
                System.out.print(" ");
            }

            // inner loop to print the first part
            for (j = i; j >= 1; j--) {
                System.out.print(j + " ");
            }

            // inner loop to print the second part
            for (j = 2; j <= i; j++) {
                System.out.print(j + " ");
            }

            // printing new line for each row
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
```

```
    {
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
          1
        2 1 2
      3 2 1 2 3
    4 3 2 1 2 3 4
  5 4 3 2 1 2 3 4 5
6 5 4 3 2 1 2 3 4 5 6
```

8. Rhombus Pattern

Prints a rhombus (tilted square) made of stars, shifted by spaces.

```
// Java Program to print
// Rhombus pattern
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;
        int num = 1;

        // outer loop to handle number of rows
        for (i = 1; i <= n; i++) {

            // inner loop to print spaces
            for (j = 1; j <= n - i; j++) {
                System.out.print(" ");
            }
```

```
            // inner loop to print stars
            for (j = 1; j <= n; j++) {
                System.out.print("*");
            }

            // printing new line for each row
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
     ******
    ******
   ******
  ******
 ******
******
```

9. Diamond Star Pattern

Prints a diamond shape made of stars.

```
// Java Program to print
// Diamond Star Pattern
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
```

```
{
    int i, j;
    int num = 1;

    // outer loop to handle upper part
    for (i = 1; i <= n; i++) {

        // inner loop to print spaces
        for (j = 1; j <= n - i; j++) {
            System.out.print(" ");
        }

        // inner loop to print stars
        for (j = 1; j <= 2 * i - 1; j++) {
            System.out.print("*");
        }
        System.out.println();
    }

    // outer loop to handle lower part
    for (i = n-1; i >= 1; i--) {

        // inner loop to print spaces
        for (j = 1; j <= n - i; j++) {
            System.out.print(" ");
        }

        // inner loop to print stars
        for (j = 1; j <= 2 * i - 1; j++) {
            System.out.print("*");
        }
        System.out.println();
    }
}

// Driver Function
public static void main(String args[])
{
    int n = 6;
    printPattern(n);
}
```

```
}
```

Output

```
     *
    ***
   *****
  *******
 *********
***********
 *********
  *******
   *****
    ***
     *
```

10. Butterfly Star Pattern

Prints a butterfly-shaped pattern using stars (*).

```
// Java Program to print Butterfly Pattern
import java.util.*;

public class Geeks {

    // Function to demonstrate the pattern
    public static void printPattern(int n)
    {
        // Outer loop to handle the upper part
        for (int i = 1; i <= n; i++) {
            for (int j = 1; j <= 2 * n; j++) {

                // To print spaces
                if (j > i && j <= 2 * n - i) {
                    System.out.print(" ");
                }

                // To print stars
                else {
```

```
                    System.out.print("*");
                }
            }
            System.out.println();
        }

        // Outer loop to handle the lower part
        for (int i = n; i >= 1; i--) {
            for (int j = 1; j <= 2 * n; j++) {

                // To print spaces
                if (j > i && j <= 2 * n - i) {
                    System.out.print(" ");
                }

                // To print stars
                else {
                    System.out.print("*");
                }
            }
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String[] args)
    {
        // Number of rows
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
*           *
**         **
***       ***
****     ****
*****   *****
```

```
**********
**********
*****  *****
****    ****
***      ***
**        **
*          *
```

11. Square Fill Pattern

This program prints a filled square of stars (*) with n+1 rows and columns.

```java
// Java Program to print
// Square fill pattern
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;

        // outer loop to handle rows
        for (i = 0; i < n; i++) {

            // inner loop to handle columns
            for (j = 0; j < n; j++) {
                System.out.print("*");
            }

            // printing new line for each row
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
```

```
        printPattern(n);
    }
}
```

Output

```
******
******
******
******
******
******
```

12. Right Half Pyramid Pattern

This creates a right-angled triangle aligned to the left using stars.


```
// Pyramid pattern
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;

        // outer loop to handle rows
        for (i = 1; i <= n; i++) {

            // inner loop to handle columns
            for (j = 1; j <= i; j++) {
                System.out.print("*");
            }

            // printing new line for each row
            System.out.println();
        }
```

```
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
*
**
***
****
*****
******
```

13. Reverse Right Half Pyramid Pattern

This prints a right-aligned triangle but in reverse top to bottom.

```
// Java Program to print pattern
// Reverse Right Half Pyramid
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;

        // outer loop to handle rows
        for (i = n; i >= 1; i--) {

            // inner loop to handle columns
            for (j = 1; j <= i; j++) {
```

```
                System.out.print("*");
            }

            // printing new line for each row
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
******
*****
****
***
**
*
```

14. Left Half Pyramid Pattern

This pattern aligns a triangle to the right by adding spaces before stars.

```
// Java Program to print pattern
// Left Half Pyramid pattern
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;
```

```
        // outer loop to handle rows
        for (i = n; i >= 1; i--) {

            // inner loop to print spaces.
            for (j = 1; j < i; j++) {
                System.out.print(" ");
            }

            // inner loop to print stars.
            for (j = 0; j <= n - i; j++) {
                System.out.print("*");
            }

            // printing new line for each row
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
     *
    **
   ***
  ****
 *****
******
```

15. Reverse Left Half Pyramid Pattern

This prints a left pyramid in reverse, starting from full-width and decreasing.

```java
// Java Program to print pattern
// Reverse Left Half Pyramid
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;

        // outer loop to handle rows
        for (i = n; i > 0; i--) {

            // inner loop to print spaces.
            for (j = 0; j < n - i; j++) {
                System.out.print(" ");
            }

            // inner loop to print stars.
            for (j = 0; j < i; j++) {
                System.out.print("*");
            }

            // printing new line for each row
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
******
 *****
  ****
   ***
    **
     *
```

16. Triangle Star Pattern

This prints an equilateral triangle where stars are spaced apart.

```java
// Java Program to print
// Triangular Pattern
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;

        // outer loop to handle rows
        for (i = 0; i < n; i++) {

            // inner loop to print spaces.
            for (j = n - i; j > 1; j--) {
                System.out.print(" ");
            }

            // inner loop to print stars.
            for (j = 0; j <= i; j++) {
                System.out.print("* ");
            }

            // printing new line for each row
```

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

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
     *
    * *
   * * *
  * * * *
 * * * * *
* * * * * *
```

17. Reverse Number Triangle Pattern

A reverse right-aligned triangle with ascending numbers from i to n.

```
// Java Program to print pattern
// Reverse number triangle
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;

        // outer loop to handle rows
        for (i = 1; i <= n; i++) {
```

```
            // inner loop to print spaces.
            for (j = 1; j < i; j++) {
                System.out.print(" ");
            }

            // inner loop to print value of j.
            for (j = i; j <= n; j++) {
                System.out.print(j + " ");
            }

            // printing new line for each row
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
1 2 3 4 5 6
 2 3 4 5 6
  3 4 5 6
   4 5 6
    5 6
     6
```

18. Mirror Image Triangle Pattern

This creates a mirrored triangle with numbers, forming a diamond-like shape.

```
// Java Program to print pattern
// Mirror Image of a triangle
```

```
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;

        // Printing the upper part
        for (i = 1; i <= n; i++) {

            // inner loop to print spaces.
            for (j = 1; j < i; j++) {
                System.out.print(" ");
            }
            // inner loop to print value of j.
            for (j = i; j <= n; j++) {
                System.out.print(j + " ");
            }

            // printing new line for each row
            System.out.println();
        }

        // Printing the lower part
        for (i = n - 1; i >= 1; i--) {

            // inner loop to print spaces.
            for (j = 1; j < i; j++) {
                System.out.print(" ");
            }

            // inner loop to print value of j.
            for (j = i; j <= n; j++) {
                System.out.print(j + " ");
            }

            // printing new line for each row
            System.out.println();
        }
```

```
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
1 2 3 4 5 6
 2 3 4 5 6
  3 4 5 6
   4 5 6
    5 6
     6
    5 6
   4 5 6
  3 4 5 6
 2 3 4 5 6
1 2 3 4 5 6
```

19. Hollow Triangle Pattern

This prints a hollow equilateral triangle using stars with only the boundary.

```
// Java Program to print
// Hollow triangle pattern
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
```

```
        int i, j, k;

        // outer loop to handle rows
        for (i = 1; i <= n; i++) {

            // inner loop to print spaces.
            for (j = i; j < n; j++) {
                System.out.print(" ");
            }

            for (k = 1; k <= (2 * i - 1); k++) {

                // printing stars.
                if (k == 1 || i == n || k == (2 * i - 1)) {
                    System.out.print("*");
                }

                // printing spaces.
                else {
                    System.out.print(" ");
                }
            }

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

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
     *
    * *
   *   *
```

```
  *     *
 *       *
***********
```

20. Hollow Reverse Triangle Pattern

Prints an inverted hollow triangle with stars only at boundaries and top row.

```java
// Java Program to print pattern
// Reverse Hollow triangle
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j, k;

        // outer loop to handle rows
        for (i = n; i >= 1; i--) {

            // inner loop to print spaces.
            for (j = i; j < n; j++) {
                System.out.print(" ");
            }

            for (k = 1; k <= (2 * i - 1); k++) {

                // printing stars.
                if (k == 1 || i == n || k == (2 * i - 1)) {
                    System.out.print("*");
                }

                // printing spaces.
                else {
                    System.out.print(" ");
                }
            }
```

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

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
***********
 *       *
  *     *
   *   *
    * *
     *
```

21. Hollow Diamond Pyramid

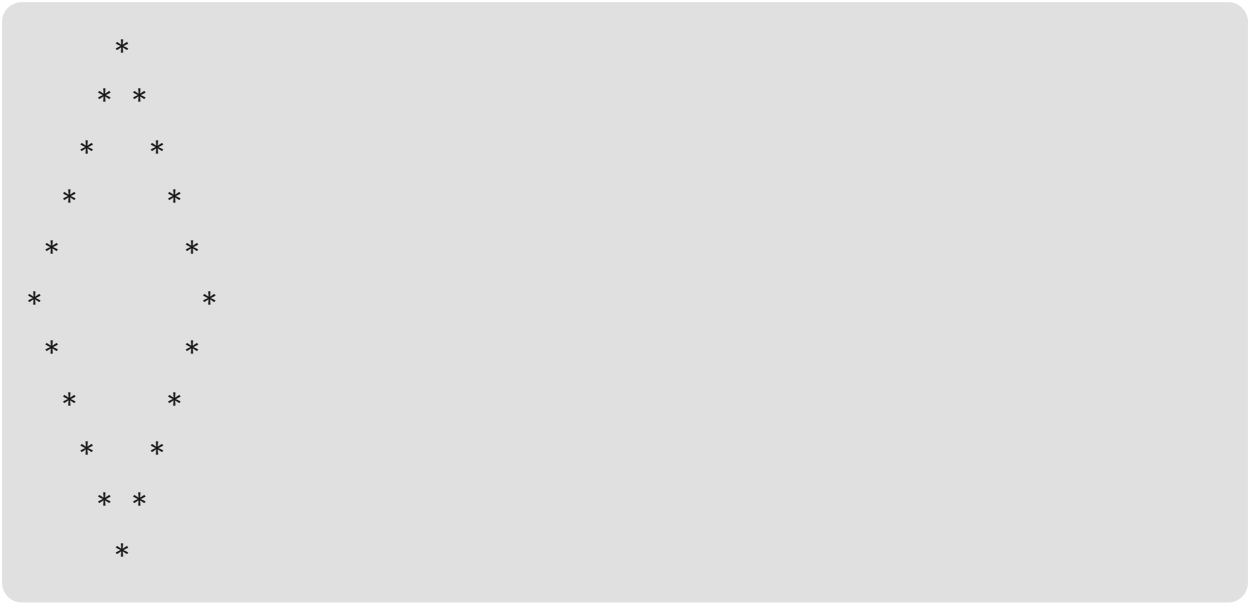
Prints a symmetrical hollow diamond made of stars, with spaces in the middle and stars only at the borders.

```
// Java Program to print Pattern
// Hollow Diamond Star
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;

        // outer loop to handle upper part
```

```
        for (i = 1; i <= n; i++) {

            // inner loop to print spaces
            for (j = 1; j <= n - i; j++) {
                System.out.print(" ");
            }

            // inner loop to print stars
            for (j = 1; j <= 2 * i - 1; j++) {
                if (j == 1 || j == 2*i-1)
                    System.out.print("*");
                else
                    System.out.print(" ");
            }
            System.out.println();
        }

        // outer loop to handle lower part
        for (i = n-1; i >= 1; i--) {

            // inner loop to print spaces
            for (j = 1; j <= n - i; j++) {
                System.out.print(" ");
            }

            // inner loop to print stars
            for (j = 1; j <= 2 * i - 1; j++) {
                if (j == 1 || j == 2*i-1)
                    System.out.print("*");
                else
                    System.out.print(" ");
            }
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
```

```
    }
}
```

Output



22. Hollow Hourglass Pattern

Displays a hollow hourglass using stars, where only boundary stars are visible in a symmetric hourglass shape.

```
// Java Program to print pattern
// Hollow Hourglass Pattern
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;

        // Printing the upper part
        for (i = 1; i <= n; i++) {

            // inner loop to print spaces.
            for (j = 1; j < i; j++) {
```

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

            // inner loop to print value of j.
            for (j = i; j <= n; j++) {
                if(j==i||j==n||i==1)
                    System.out.print("* ");
                else
                    System.out.print("  ");
            }

            // printing new line for each row
            System.out.println();
        }

        // Printing the lower part
        for (i = n - 1; i >= 1; i--) {

            // inner loop to print spaces.
            for (j = 1; j < i; j++) {
                System.out.print(" ");
            }

            // inner loop to print value of j.
            for (j = i; j <= n; j++) {
                if(j==i||j==n||i==1)
                    System.out.print("* ");
                else
                    System.out.print("  ");
            }

            // printing new line for each row
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
```

```
    }
}
```

Output

```
* * * * * * *
 *         *
  *       *
   *     *
    *   *
     * *
      *
     * *
    *   *
   *     *
  *       *
 *         *
* * * * * * *
```

23. Pascal's Triangle

Generates Pascal’s Triangle with proper alignment, showing binomial coefficients for each row.

```
// Java Program to implement
// Pascal's Triangle
import java.util.*;

class Geeks {

    // Pascal function
    public static void printPascal(int n)
    {
        for (int i = 1; i <= n; i++) {
            for (int j = 0; j <= n - i; j++) {

                // for left spacing
                System.out.print(" ");
            }
```

```
            // used to represent x(i, k)
            int x = 1;
            for (int k = 1; k <= i; k++) {

                // The first value in a line is always 1
                System.out.print(x + " ");
                x = x * (i - k) / k;
            }
            System.out.println();
        }
    }

    // Driver code
    public static void main(String[] args)
    {
        int n = 4;
        printPascal(n);
    }
}
```

Output

```
   1
  1 1
 1 2 1
1 3 3 1
```

24. Right Pascal's Triangle

Forms a right-angled triangle pointing upward and downward, creating a right Pascal's triangle shape.

```
// Java Program to print
// Right Pascal's Triangle
import java.util.*;

// Java code for printing pattern
public class Geeks {
```

```
    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;
        int num = 1;

        // outer loop to handle upper part
        for (i = 1; i <= n; i++) {

            // inner loop to print stars
            for (j = 1; j <= i; j++) {
                System.out.print("* ");
            }

            System.out.println();
        }

        // outer loop to handle lower part
        for (i = n-1; i >= 1; i--) {

            // inner loop to print stars
            for (j = 1; j <= i; j++) {
                System.out.print("* ");
            }

            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 4;
        printPattern(n);
    }
}
```

Output

```
*
* *
```

```
* * *
* * * *
* * *
* *
*
```

25. K Pattern

Prints an inverted and then upright right half pyramid (like K shaped), forming a symmetrical star pattern.

```java
// Java Program to print pattern
// Reverse Right Half Pyramid
import java.util.*;

public class Geeks {

    // Function to demonstrate pattern
    public static void printPattern(int n)
    {
        int i, j;

        // outer loop to handle rows
        for (i = n; i >= 1; i--) {

            // inner loop to handle columns
            for (j = 1; j <= i; j++) {
                System.out.print("*");
            }

            // printing new line for each row
            System.out.println();
        }

        // outer loop to handle rows
        for (i = 2; i <= n; i++) {

            // inner loop to handle columns
            for (j = 1; j <= i; j++) {
                System.out.print("*");
```

```
            }

            // printing new line for each row
            System.out.println();
        }
    }

    // Driver Function
    public static void main(String args[])
    {
        int n = 6;
        printPattern(n);
    }
}
```

Output

```
******
*****
****
***
**
*
**
***
****
*****
******
```

Conclusion

Java pattern programs are a great way to learn and practice coding skills. They help you understand loops, nested loops, and how to think logically to solve problems. Whether you are a beginner or an experienced programmer, practicing pattern programs can improve your Java skills. So, keep coding, experimenting with different patterns, and enjoy the learning process

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