






Pattern Programs in Java

e! edureka.co/blog/30-pattern-programs-in-java

June 22, 2019

Java Certification Training

-  Real-life Projects
-  Lifetime Access
-  24x7 Tech Support
-  Hands-on Assessments


[EXPLORE COURSE](#)

Java Interviews can give a hard time to programmers, such is the severity of the process. The ones who have attended the process will know that a pattern program is ought to pop up in the list of **programs**.

Java Full Course | Java Tutorial for Beginners | Java Online Training | Edureka


a Velrandia Enterprise

JAVA FULL COURSE



Million+
views

This Edureka Java Full Course will help you in understanding the various fundamentals of Java Programming and also helps you to become a master in Java concepts.

This article precisely focuses on pattern programs in Java. I have classified the programs under the following clusters :

Let's get started. :-)

Star Patterns in Java

First, let us begin with the basic and the commonly asked pattern program in **Java** i.e Pyramid.

1. Pyramid Program

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

Let's write the java code to understand this pattern better.

```
1  public class Edureka
2  {
3      public static void pyramidPattern(int n)
4      {
5          for (int i=0; i<n; i++) //outer loop for number of rows(n) { for (int
6              j=n-i; j>1; j--) //inner loop for spaces
7              {
8                  System.out.print(" "); //print space
9              }
10             for (int j=0; j<=i; j++ ) //inner loop for number of columns
11             {
12                 System.out.print("* "); //print star
13             }
14             System.out.println(); //ending line after each row
15         }
16     }
17
18     public static void main(String args[]) //driver function
19     {
20         int n = 5;
21         pyramidPattern(n);
22     }
23 }
```

2. Right Triangle Star Pattern

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

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

```
1  public class Edureka
2  {
3      public static void rightTriangle(int n)
4      {
5          int i, j;
6          for(i=0; i<n; i++) //outer loop for number of rows(n) { for(j=2*(n-i);
7              j>=0; j--) // inner loop for spaces
8              {
9                  System.out.print(" "); // printing space
10             }
11             for(j=0; j<=i; j++) // inner loop for columns
12             {
13                 System.out.print("* "); // print star
14             }
15             System.out.println(); // ending line after each row
16         }
17     }
18     public static void main(String args[])
19     {
20         int n = 5;
21         rightTriangle(n);
22     }
23 }
```

3. Left Triangle Star Pattern

```

      *
     * *
    * * *
   * * * *
  * * * * *
 * * * * *

```

```

1  public class Edureka
2  {
3      public static void printStars(int n)
4      {
5          int i, j;
6          for(i=0; i<n; i++) //outer loop for number of rows(n) { for(j=2*(n-i);
7              j>=0; j--) // inner loop for spaces
8              {
9                  System.out.print(" "); // printing space
10             }
11             for(j=0; j<=i; j++) // inner loop for columns
12             {
13                 System.out.print("* "); // print star
14             }
15             System.out.println(); // ending line after each row
16         }
17     public static void main(String args[])
18     {
19         int n = 5;
20         printStars(n);
21     }
22 }

```

4. Diamond Shape Pattern Program in Java

Enter the number of rows: 5

```

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

```

1  import java.util.Scanner;
2  public class Edureka
3  {
4      public static void main(String args[])
5      {
6          int n, i, j, space = 1;
7          System.out.print("Enter the number of rows: ");
8          Scanner s = new Scanner(System.in);
9          n = s.nextInt();
10         space = n - 1;
11         for (j = 1; j<= n; j++)
12         {
13             for (i = 1; i<= space; i++)
14             {
15                 System.out.print(" ");
16             }
17             space--;
18             for (i = 1; i <= 2 * j - 1; i++)
19             {
20                 System.out.print("*");
21             }

```

```

22  System.out.println("");
23  }
24  space = 1;
25  for (j = 1; j<= n - 1; j++)
26  {
27      for (i = 1; i<= space; i++)
28      {
29          System.out.print(" ");
30      }
31      space++;
32      for (i = 1; i<= 2 * (n - j) - 1; i++)
33      {
34          System.out.print("*");
35      }
36      System.out.println("");
37  }
38  }
39

```

5. Downward Triangle Star Pattern

Enter the number of rows: 5

```

* * * * *
* * * *
* * *
* *
*

```

```
1  import java.util.Scanner;
2  public class Edureka
3  {
4  public static void main(String[] args)
5  {
6  Scanner sc = new Scanner(System.in);
7  System.out.println("Enter the number of rows: "); //takes input from
   user
8  int rows = sc.nextInt();
9  for (int i= rows-1; i>=0 ; i--)
10 {
11 for (int j=0; j<=i; j++)
12 {
13 System.out.print("*" + " ");
14 }
15 System.out.println();
16 }
17 sc.close();
18 }
19 }
20
21
22
```

6. Mirrored Right Triangle Star Program

Enter the number of rows: 5

*
**


```
1  import java.util.Scanner;
2  public class Edureka
3  {
4  public static void main(String[] args)
5  {
6  Scanner sc = new Scanner(System.in);
7  System.out.println("Enter number of rows: "); // takes input from user
8  int rows = sc.nextInt();
9
10 for (int i= 0; i<= rows; i++)
11 {
12 for (int j=1; j<=rows-i; j++)
13 {
14 System.out.print(" ");
15 }
16 for (int k=0;k<=i;k++)
17 {
18 System.out.print("*");
19 }
20 System.out.println("");
21 }
22 sc.close();
23 }
24
25
26
27
```

7. Reversed Pyramid Star Pattern

Enter the number of rows: 5

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

```
1  import java.util.Scanner;
2  public class Edureka
3  {
4  public static void main(String[] args)
5  {
6  Scanner sc = new Scanner(System.in);
7  System.out.println("Enter the number of rows: ");
8  int rows = sc.nextInt();
9  for (int i= 0; i<= rows-1 ; i++)
10 {
11 for (int j=0; j<=i; j++)
12 {
13 System.out.print(" ");
14 }
15 for (int k=0; k<=rows-1-i; k++)
16 {
17 System.out.print("*" + " ");
18 }
19 System.out.println();
20 }
21 sc.close();
22 }
23
24
25
```

8. Right down Mirror Star Pattern

Enter the number of rows: 5

* * * * *

* * * * *

* * *

* *

*

```
1  import java.util.Scanner;
2  public class Edureka
3  {
4  public static void main(String[] args)
5  {
6  Scanner sc = new Scanner(System.in); // takes input
7  System.out.println("Enter number of rows: ");
8  int rows = sc.nextInt();
9  for (int i= rows; i>= 1; i--)
10 {
11 for (int j=rows; j>i;j--)
12 {
13 System.out.print(" ");
14 }
15 for (int k=1;k<=i;k++)
16 {
17 System.out.print("*");
18 }
19 System.out.println("");
20 }
21 sc.close();
22 }
23
24
```

9. Right Pascal's Triangle

Enter the number of rows: 5

```

*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*

```

```

1  import java.util.Scanner;
2  public class Edureka
3  {
4  public static void main(String[] args)
5  {
6  Scanner sc = new Scanner(System.in);
7  System.out.println("Enter the number of rows: ");
8  int rows = sc.nextInt();
9  for (int i= 0; i<= rows-1 ; i++)
10 {
11 for (int j=0; j<=i; j++) { System.out.print("*"+ " "); }
12 System.out.println(""); } for (int i=rows-1; i>=0; i--)
13 {
14 for(int j=0; j <= i-1;j++)
15 {
16 System.out.print("*"+ " ");
17 }
18 System.out.println("");
19 }
20 sc.close();
21 }
22

```

10. Left Triangle Pascal's

Enter the number of rows: 5

```

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

```
1  import java.util.Scanner;
2  public class Edureka
3  {
4      public static void main(String[] args)
5      {
6          Scanner sc = new Scanner(System.in);
7          System.out.println("Enter the number of rows: ");
8          int rows = sc.nextInt();
9          for (int i= 1; i<= rows ; i++)
10         {
11             for (int j=i; j <rows ;j++)
12             {
13                 System.out.print(" ");
14             }
15             for (int k=1; k<=i;k++) { System.out.print("*"); }
16             System.out.println(""); } for (int i=rows; i>=1; i--)
17         {
18             for(int j=i; j<=rows;j++)
19             {
20                 System.out.print(" ");
```



```

21  for(int k=1; k<i ;k++)
22  {
23  System.out.print("*");
24  }
25  System.out.println("");
26  }
27  sc.close();
28  }
29  }
30
31
32

```

11. Sandglass Star Pattern

Enter the number of rows: 5

```

* * * * *
 * * * *
  * * *
   * *
    *
   *
  * *
 * * *
* * * *
* * * * *

```

```

1  import java.util.Scanner;
2  public class Edureka
3  {
4  public static void main(String[] args)
5  {
6  Scanner sc = new Scanner(System.in);
7  System.out.println("Enter the number of rows: ");

```

```
8  int rows = sc.nextInt();
9  for (int i= 0; i<= rows-1 ; i++)
10 {
11     for (int j=0; j <i; j++)
12     {
13         System.out.print(" ");
14     }
15     for (int k=i; k<=rows-1; k++) { System.out.print("*" + " "); }
16     System.out.println(""); } for (int i= rows-1; i>= 0; i--)
17 {
18     for (int j=0; j< i ;j++)
19     {
20         System.out.print(" ");
21     }
22     for (int k=i; k<=rows-1; k++)
23     {
24         System.out.print("*" + " ");
25     }
26     System.out.println("");
27 }
28 sc.close();
29 }
30
```

12. Alphabet A Pattern

**
* *

* *
* *
* *



Java Certification Training Course

- Instructor-led Sessions
- Real-life Case Studies
- Assignments
- Lifetime Access

```
1  import java.util.Scanner;  
2  public class Edureka  
3  {  
4  // Java program to print alphabet A pattern  
5  void display(int n)  
6  {  
7  // Outer for loop for number of lines  
8  for (int i = 0; i<=n; i++) {  
9  // Inner for loop for logic execution  
10 for (int j = 0; j<= n / 2; j++) {  
11 // prints two column lines  
12 if ((j == 0 || j == n / 2) && i != 0 ||  
    // print first line of alphabet
```

```

13  i == 0 && j != n / 2 ||
14  // prints middle line
15  i == n / 2)
16  System.out.print("*");
17  else
18  System.out.print(" ");
19  }
20  System.out.println();
21  }
22  }
23  public static void main(String[] args)
24  {
25  Scanner sc = new Scanner(System.in);
26  Edureka a = new Edureka();
27  a.display(7);
28  }
29
30

```

13. Triangle Star pattern

Enter the number of rows: 5

```

    *
  * *
*   *
*     *
*****

```

```

1  import java.util.Scanner;
2  public class Edureka
3  {

```

```
4  public static void main(String[] args)
5  {
6  Scanner sc = new Scanner(System.in);
7  System.out.println("Enter the number of rows: ");
8  int rows = sc.nextInt();
9
10 for (int i=1; i<= rows ; i++)
11 {
12 for (int j = i; j < rows ; j++) {
13 System.out.print(" ");
14 }
15 for (int k = 1; k <= (2*i -1) ;k++) {
16 if( k==1 || i == rows || k==(2*i-1)) {
17 System.out.print("*");
18 }
19 else {
20 System.out.print(" ");
21 }
22 }
23 System.out.println("");
24 }
25 sc.close();
26 }
27
28
29
```

14. Down triangle

Enter the number of rows: 5

* * * * *

* *

* *

* *

 *

```
1  import java.util.Scanner;
2  public class Edureka
3  {
4  public static void main(String[] args)
5  {
6  Scanner sc = new Scanner(System.in);
7  System.out.println("Enter the number of rows: ");
8  int rows = sc.nextInt();
9  for (int i=rows; i>= 1 ; i--)
10 {
11 for (int j = i; j < rows ; j++) {
12 System.out.print(" ");
13 }
14 for (int k = 1; k <= (2*i -1) ;k++) {
15 if( k==1 || i == rows || k==(2*i-1)) {
16 System.out.print("*");
17 }
18 else {
19 System.out.print(" ");
20 }
21 }
22 System.out.println("");
23 }
24 sc.close();
25 }
26
27
```

15. Diamond Star Pattern

Enter the number of rows: 5

```

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

```
1  import java.util.Scanner;
2
3  public class Edureka
4  {
5      public static void main(String[] args)
6      {
7          Scanner sc = new Scanner(System.in);
8          System.out.println("Enter the number of rows: ");
9          int rows = sc.nextInt();
10         for (int i=1; i<= rows ; i++) { for (int j = rows; j > i ; j--) {
11             System.out.print(" ");
12         }
13         System.out.print("*");
14         for (int k = 1; k < 2*(i -1) ;k++) { System.out.print(" "); } if( i==1) {
15             System.out.println(""); } else { System.out.println("*"); } } for (int
16             i=rows-1; i>= 1 ; i--)
17         {
18             for (int j = rows; j > i ; j--) {
19                 System.out.print(" ");
20             }
21             System.out.print("*");
22             for (int k = 1; k < 2*(i -1) ;k++) {
23                 System.out.print(" ");
24             }
25             System.out.println("");
26         }
27     }
28 }
```



```

21 }
22 if( i==1)
23 System.out.println("");
24 else
25 System.out.println("*");
26 }
27 sc.close();
28 }
29 }
30
31

```

Now that we have implemented star pattern programs in [Java](#). Let us move further and implement some Numeric patterns.

Numeric Pattern in Java

1. Simple number program

```

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

1 public class Edureka
2 {
3     public static void printNums(int n)
4     {
5         int i, j,num;
6
7         for(i=0; i<n; i++) // outer loop for rows
            {

```

```

8  num=1;
9  for(j=0; j<=i; j++) // inner loop for rows
10 {
11 // printing num with a space
12 System.out.print(num+ " ");
13
14 //incrementing value of num
15 num++;
16 }
17
18 // ending line after each row
19 System.out.println();
20 }
21
22 public static void main(String args[])
23 {
24 int n = 5;
25 printNums(n);
26 }
27
28

```

2. Number Pattern Program in java

```

1
2 3
4 5 6
7 8 9 10
11 12 13 14 15

```

```
1  import java.util.Scanner;
2
3  public class Edureka
4  {
5      public static void main(String[] args) {
6          int i, j, k = 1;
7          for (i = 1; i <= 5; i++) {
8              for (j = 1; j < i + 1; j++) {
9                  System.out.print(k++ + " ");
10             }
11
12             System.out.println();
13         }
14     }
15
16 }
```

3. Pascal's Triangle Program in Java

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

```

1  import java.util.Scanner;
2  public class Edureka
3  {
4  public static void main(String[] args) {
5
6  int n = 5;
7
8  for (int i = 0; i < n; i++) {
9  int number = 1;
10 System.out.printf("%" + (n - i) * 2 + "s", "");
11 for (int j = 0; j <= i; j++) {
12 System.out.printf("%4d", number);
13 number = number * (i - j) / (j + 1);
14 }
15 System.out.println();
16 }
17
18 }
19
20 }
21

```

4. Diamond Pattern Program in Java

```

1
212
32123
4321234
32123
212
1

```

```
1  import java.util.Scanner;
2
3  public class Edureka
4  {
5      public static void main(String[] args) {
6          for (int i = 1; i <= 4; i++)
7          {
8              int n = 4;
9
10             for (int j = 1; j<= n - i; j++) { System.out.print(" "); } for (int k = i;
11             k >= 1; k--)
12             {
13                 System.out.print(k);
14             }
15             for (int l = 2; l <= i; l++) { System.out.print(l); }
16             System.out.println(); } for (int i = 3; i >= 1; i--)
17             {
18                 int n = 3;
19
20                 for (int j = 0; j<= n - i; j++) { System.out.print(" "); } for (int k = i;
21                 k >= 1; k--)
22                 {
23                     System.out.print(k);
24                 }
25                 for (int l = 2; l <= i; l++)
26                 {
27                     System.out.print(l);
28                 }
29                 System.out.println();
30             }
31         }
32     }
```

29 }

30

31 }

}

5. Number Pattern Programs in Java

Enter the number of rows: 5

1

2 2

3 3 3

4 4 4 4

5 5 5 5 5

```
1  import java.util.Scanner;
2
3  public class Edureka
4  {
5      public static void main(String[] args)
6      {
7          Scanner sc = new Scanner(System.in); //Taking rows value from the
          user
8          System.out.println("Enter the number of rows: ");
9          int rows = sc.nextInt();
10         for (int i = 1; i <= rows; i++)
11         {
12             for (int j = 1; j <= i; j++)
13             {
14                 System.out.print(i+" ");
15             }
16
17             System.out.println();
18         }
19         sc.close();
20     }
21 }
```

6. Descending order Pattern

Enter the number of rows: 5

Programming & Frameworks Training

5
5 4
5 4 3
5 4 3 2
5 4 3 2 1

```
1  import java.util.Scanner;
2  public class Edureka
3  {
4  public static void main(String[] args)
5  {
6  Scanner sc = new Scanner(System.in);
7  //Taking rows value from the user
8  System.out.println("Enter the number of rows: ");
9  int rows = sc.nextInt();
10 for (int i = rows; i >= 1; i--)
11 {
12 for (int j = rows; j >= i; j--)
13 {
14 System.out.print(j+" ");
15 }
16 System.out.println();
17 }
18 sc.close();
19 }
20
21
22
23
24
```


7. Right Triangle Numeric Pattern

Enter the number of rows: 5

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

```
1  import java.util.Scanner;
2
3  public class Edureka
4  {
5
6  public static void main(String[] args)
7  {
8
9  Scanner sc = new Scanner(System.in);
10
11 System.out.println("Enter the number of rows: ");
12 int rows = sc.nextInt();
13
14 for (int i = 1; i <= rows; i++) { for (int j = i; j >= 1; j--)
15 {
16 System.out.print(j+" ");
17 }
18 System.out.println();
19 }
20 sc.close();
21 }
22 }
```

8. Binary Number Pattern

Enter the number of rows: 5

```
10101
01010
10101
01010
10101
```

```
1  import java.util.Scanner;
2  public class Edureka
3  {
4
5  public static void main(String[] args)
6  {
7  Scanner sc = new Scanner(System.in);
8
9  System.out.println("Enter the number of rows: ");
10
11 int rows = sc.nextInt();
12
13 for (int i = 1; i <= rows; i++)
14 {
15     int num;
16
17     if(i%2 == 0)
18     {
19         num = 0;
20
21         for (int j = 1; j <= rows; j++)
22         {
23             System.out.print(num);
```

```
23
24  num = (num == 0)? 1 : 0;
25  }
26  }
27  else
28  {
29  num = 1;
30
31  for (int j = 1; j <= rows; j++)
32  {
33  System.out.print(num);
34
35  num = (num == 0)? 1 : 0;
36  }
37  }
38  System.out.println();
39  }
40
41  sc.close();
42  }
43  }
44
45
46
```

9. Zeros/ ones Pattern Programs

Enter the number of rows: 5

1
10
101
1010
10101

```
1  import java.util.Scanner;
2  public class Edureka
3  {
4  public static void main(String[] args)
5  {
6  Scanner sc = new Scanner(System.in);
7
8  System.out.println("Enter the number of rows: ");
9
10 int rows = sc.nextInt();
11 for (int i = 1; i <= rows; i++)
12 {
13     for (int j = 1; j <= i; j++)
14     {
15         if(j%2 == 0)
16         {
17             System.out.print(0);
18         }
19         else
20         {
21             System.out.print(1);
22         }
23     }
24     System.out.println();
```

```
25 }  
26  
27 sc.close();  
28 }  
29 }  
30  
31
```

10. Diamond Numeric Pattern

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

```
1  import java.util.Scanner;  
2  public class Edureka  
3  {  
4  public static void main(String[] args)  
5  {  
6  
7  int n = 5;  
8  
9  for (int i = 1; i <= n; i++)  
10 {  
11 for (int j = 1; j < i; j++)  
12 {  
13 System.out.print(" ");  
    }  
}
```

```

14
15  for (int k = i; k <= n; k++) { System.out.print(k+" "); }
16  System.out.println(); } for (int i = n-1; i >= 1; i--)
17  {
18  for (int j = 1; j < i; j++)
19  {
20  System.out.print(" ");
21  }
22  for (int k = i; k <= n; k++)
23  {
24  System.out.print(k+" ");
25  }
26  System.out.println();
27  }
28
29 }
30 }
31

```

Now that we have implemented numeric pattern programs in Java. Let us move further and implement some character/ alphabet patterns.

Alphabet/ Character Patterns in Java

1. Right Alphabetic triangle

```

A
A B
A B C
A B C D
A B C D E
A B C D E F

```

```
1  import java.util.Scanner;
2  public class Edureka
3  {
4  public static void main(String[] args)
5  {
6  int alphabet = 65;
7  for (int i = 0; i <= 5; i++)
8  {
9  for (int j = 0; j <= i; j++)
10 {
11 System.out.print((char) (alphabet + j) + " ");
12 }
13 System.out.println();
14 }
15 }
16 }
17
18
```

2. Alphabet/ Character Pattern Programs

```
A
B B
C C C
D D D D
E E E E E
F F F F F F
```

```
1  import java.util.Scanner;
2  public class Edureka
3  {
4  public static void main(String[] args)
5  {
6  int alphabet = 65;
7  for (int i = 0; i<= 5; i++)
8  {
9  for (int j = 0; j <= i; j++)
10 {
11 System.out.print((char) alphabet + " ");
12 }
13 alphabet++;
14 System.out.println();
15 }
16 }
17
18
19
20
```

3. K Shape Character Pattern Program

A B C D E F
A B C D E
A B C D
A B C
A B
A
A
A B
A B C
A B C D
A B C D E
A B C D E F

```
1  import java.util.Scanner;
2  public class Edureka
3  {public static void main(String[] args)
4  {
5  for (int i = 5; i >= 0; i--)
6  {
7  int alphabet = 65;
8  for (int j = 0; j <= i; j++)
9  {
10 System.out.print((char) (alphabet + j) + " ");
11 }
12 System.out.println();
13 }
14 for (int i = 0; i<= 5; i++)
15 {
16 int alphabet = 65;
17 for (int j = 0; j <= i; j++)
18 {
19 System.out.print((char) (alphabet + j) + " ");
20 }
21 System.out.println();
22 }
23 }
24
25
26
27
```

4. Triangle Character Pattern Program in Java

```
A
A B
A B C
A B C D
A B C D E
A B C D E F
```



Java Certification Training Course

Weekday / Weekend Batches

```

1  public class Edureka
2  {
3      public static void main(String[] args)
4      {
5          for (int i = 0; i <= 5; i++) { int alphabet = 65; for (int j = 5; j > i;
6              j--)
7              {
8                  System.out.print(" ");
9              }
10             for (int k = 0; k <= i; k++)
11             {
12                 System.out.print((char) (alphabet + k) + " ");
13             }
14             System.out.println();
15         }
16     }

```

5. Diamond Pattern in Java

Enter a Character between A to Z : F

```

      A
     B B
    C   C
   D     D
  E       E
 F         F
 E         E
  D       D
   C     C
    B B
     A

```

```

1  import java.util.Scanner;
2  public class Edureka

```

```
3  {public static void main(String[] args) {
4  char[] letter = { 'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J',
5  'K', 'L', 'M', 'N', 'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V',
6  'W', 'X', 'Y', 'Z' };
7  int letter_number = 0;
8  String[] diamond = new String[26]; // array of strings
9  System.out.print("Enter a Character between A to Z : ");
10 Scanner reader = new Scanner(System.in);
11 try {
12 char user_letter = reader.next("[A-Z]").charAt(0);
13 // search for letter number in the array letter
14 for (int i = 0; i < letter.length; i++) {
15 if (letter[i] == user_letter) {
16 letter_number = i;
17 break;
18 }
19 }
20 // construct diamond
21 for (int i = 0; i <= letter_number; i++) {
22 diamond[i] = "";
23 // add initial spaces
24 for (int j = 0; j < letter_number - i; j++) {
25 diamond[i] += " ";
26 }
27 // add letter
28 diamond[i] += letter[i];
29 // add space between letters
30 if (letter[i] != 'A') {
```

```

31 for (int j = 0; j < 2 * i - 1; j++) { diamond[i] += " "; } // add letter
    diamond[i] += letter[i]; } // Draw the first part of the diamond
32 System.out.println(diamond[i]); } for (int i = letter_number - 1; i >=
    0; i--)
33 {
34     // Draw the second part of the diamond
35     // Writing the diamondArray in reverse order
36     System.out.println(diamond[i]);
37 }
38 } catch (Exception e) {
39     e.printStackTrace();
40 } finally {
41     reader.close();
42 }
43 }
44 }
45
46
47
48
49

```

So this brings us to the end of the top 30 pattern programs in java blog. I hope you found it informative and helped you in understanding [Java Fundamentals](#).

*Check out the **[Java Certification Course](#)** by Edureka, a trusted online learning company with a network of more than 250,000 satisfied learners spread across the globe. We are here to help you with every step on your journey, for becoming a besides this java interview questions, we come up with a curriculum which is designed for students and professionals who want to be a Java Developer. The course is designed to give you a head start into Java programming and train you for both core and advanced Java concepts along with various Java frameworks like Hibernate & Spring.*

Got a question for us? Please mention it in the comments section of this “pattern programs in Java” article and we will get back to you as soon as possible or you can also join our [Java Training in Amravati](#).

Upcoming Batches For Java Certification Training Course

Course Name	Date	Details
<u>Java Certification Training Course</u>	Class Starts on 27th January,2024 SAT&SUN (Weekend Batch)	<u>View Details</u>