Pyramids

** Simple pyramid pattern**

|  |
| --- |
| import java.io.\*;    // Java code to demonstrate star patterns  public class GeeksForGeeks  {      // Function to demonstrate printing pattern      public static void printStars(int n)      {          int i, j;            // outer loop to handle number of rows          //  n in this case          for(i=0; i<n; i++)          {                //  inner loop to handle number of columns              //  values changing acc. to outer loop              for(j=0; j<=i; j++)              {                  // printing stars                  System.out.print("\* ");              }                // ending line after each row              System.out.println();          }     }        // Driver Function      public static void main(String args[])      {          int n = 5;          printStars(n);      }  } |

Output:

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** After 180 degree rotation**

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| --- |
| import java.io.\*;  // Java code to demonstrate star pattern  public class GeeksForGeeks  {      // Function to demonstrate printing pattern      public static void printStars(int n)      {          int i, j;            // outer loop to handle number of rows          //  n in this case          for(i=0; i<n; i++)          {                // inner loop to handle number spaces              // values changing acc. to requirement              for(j=2\*(n-i); j>=0; j--)              {                  // printing spaces                  System.out.print(" ");              }                //  inner loop to handle number of columns              //  values changing acc. to outer loop              for(j=0; j<=i; j++)              {                  // printing stars                  System.out.print("\* ");              }                // ending line after each row              System.out.println();          }      }        // Driver Function      public static void main(String args[])      {          int n = 5;          printStars(n);      }  } |

Output:

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** Printing Triangle**

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| --- |
| import java.io.\*;    // Java code to demonstrate star pattern  public class GeeksForGeeks  {      // Function to demonstrate printing pattern      public static void printTriagle(int n)      {          // outer loop to handle number of rows          //  n in this case          for (int i=0; i<n; i++)          {                // inner loop to handle number spaces              // values changing acc. to requirement              for (int j=n-i; j>1; j--)              {                  // printing spaces                  System.out.print(" ");              }                //  inner loop to handle number of columns              //  values changing acc. to outer loop              for (int j=0; j<=i; j++ )              {                  // printing stars                  System.out.print("\* ");              }                // ending line after each row              System.out.println();          }      }        // Driver Function      public static void main(String args[])      {          int n = 5;          printTriagle(n);      }  } |

Output:

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** Number Pattern**

|  |
| --- |
| import java.io.\*;    // Java code to demonstrate number pattern  public class GeeksForGeeks  {      // Function to demonstrate printing pattern      public static void printNums(int n)      {          int i, j,num;            // outer loop to handle number of rows          //  n in this case          for(i=0; i<n; i++)          {              // initialising starting number              num=1;                //  inner loop to handle number of columns              //  values changing acc. to outer loop              for(j=0; j<=i; j++)              {                  // printing num with a space                  System.out.print(num+ " ");                    //incrementing value of num                  num++;              }                // ending line after each row              System.out.println();          }      }        // Driver Function      public static void main(String args[])      {          int n = 5;          printNums(n);      }  } |

Output:

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

** Numbers without re assigning**

|  |
| --- |
| import java.io.\*;    // Java code to demonstrate star pattern  public class GeeksForGeeks  {      // Function to demonstrate printing pattern      public static void printNums(int n)      {          // initialising starting number          int i, j, num=1;            // outer loop to handle number of rows          // n in this case          for(i=0; i<n; i++)          {                // without re assigning num              // num = 1;              for(j=0; j<=i; j++)              {                  // printing num with a space                  System.out.print(num+ " ");                    // incrementing num at each column                  num = num + 1;              }                // ending line after each row              System.out.println();          }      }        // Driver Function      public static void main(String args[])      {          int n = 5;          printNums(n);      }  } |

Output:

1

2 3

4 5 6

7 8 9 10

11 12 13 14 15