1. Write a program to print the following patterns:

```
A
  *
  up to n lines.
  public class LeftTriangle {
  public static void rightTriangle(int n) {
     int i, j;
     for(i=0; i< n; i++){ //outer loop for number of rows(n)
        for(i=0; i <= i; i++) // inner loop for columns
          System.out.print("* "); // print star
        System.out.println(); // ending line after each row
  public static void main(String args[])
   {
     int n = 5;
     rightTriangle(n);
}
В
  up to n terms
  public class RightTriangle {
   public static void rightTriangle(int n) {
```

```
int i, j;
     for(i=0; i<n; i++){ //outer loop for number of</pre>
rows(n)
        for(j=i; j<n; j++) // inner loop for spaces</pre>
           System.out.print(" "); // printing space
        for(j=0; j<=i; j++) // inner loop for columns
           System.out.print("* "); // print star
        System.out.println(); // ending line after each
row
     }
  public static void main(String args[])
     int n = 5;
     rightTriangle(n);
}
\mathbf{C}
  * * * * *
  upto n terms
public class Pyramid {
  public static void pyramidPattern(int n)
   {
     for (int i=0; i<n; i++) { //outer loop for number</pre>
of rows(n)
        for (int j=1; j< n-i; j++) //inner loop for spaces
           System.out.print("."); //print space
```

```
for (int j=0; j<=i; j++ ) //inner loop for number
of columns
          System.out.print("* "); //print star
        System.out.println(); //ending line after each
row
     }
  }
  public static void main(String args[]) //driver
function
  {
     int n = 5;
     pyramidPattern(n);
  }
}
D
import java.util.Scanner;
public class RightPascalTriangle {
  public static void main(String[] args) {
     Scanner sc = new Scanner(System.in);
     System. out. println ("Enter the number of rows: ");
     int rows = sc.nextInt();
     for (int i = 0; i < = rows-1; i++) {
        for (int j=0; j<=i; j++) {
          System.out.print("*"+ " ");
```

```
System.out.println("");
     for (int i=rows-1; i>=0; i--) {
        for(int j=0; j <= i-1; j++) {
           System.out.print("*"+ " ");
        System.out.println("");
  }
}
E
/*
rows = 4
1-> 432*
2-> 43*1*
3-> 4*123*
4-> *12345*
3-> 4*123*
2-> 43*1*
1-> 432*
 */
```

```
public class Diamond {
  public static void main(String[] args) {
     int rows = 4:
     for (int i = 1; i <= rows; i++) {
        for (int j = rows; j > i; j--) {
           System.out.print(" ");
        }
        //Printed the initial spaces
        System.out.print("*");
        //Printed the 1st *
        for (int k = 1; k < 2 * (i - 1); k++) {
           System.out.print(" ");
        //Printed the middle spaces
        if (i == 1) {
           System.out.println("");
        }
        else {
           System.out.println("*");
        }
        //Printed the 2nd *
     //System.out.println();
     for (int i = rows - 1; i >= 1; i--) {
        for (int j = rows; j > i; j--) {
           System.out.print(" ");
        }
        //Printed the initial spaces
        System.out.print("*");
        //Printed the 1st *
        for (int k = 1; k < 2 * (i - 1); k++) {
           System.out.print(" ");
        }
        //Printed the middle spaces
```