S.No: 5	Exp. Name: ***A program to print Half pyramid pattern***	Date:2023-09-16

ID: 224G1A0560

Aim:

Write a Java program to print Half Pyramid pattern.

Source Code:

HalfPyramid.java

```
import java.util.Scanner;
class HalfPyramid
{
   public static void main(String[] args)
   {
      Scanner scanner = new Scanner(System.in);
      System.out.print("Enter no of rows : ");
      int numRows = scanner.nextInt();
      if (numRows <= 0)
      {
         System.out.println("Number of rows must be a positive integer.");
         return;
      }
      for (int i = 1; i <= numRows; i++)
      {
         for (int j = 1; j <= i; j++)
         {
            System.out.print("* ");
         }
         System.out.println();
      }
   }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter no of rows : 5
*
* *
* * *
* * * *
* * * * *

Test Case - 2
User Output
Enter no of rows : 3
*
* *
* * *

2022-2026-CSE-A

Srinivasa Ramanujan Institute of Technology

Test Case - 3
User Output
Enter no of rows : 10
*
* *
* * *
* * * *
* * * * *
* * * * * *
* * * * * * *
* * * * * * * *
* * * * * * * * *
* * * * * * * * * *

S.No: 9	Exp. Name: ***A program to print Inverted Pyramid Pattern***	Date:2023-09-16

Aim:

Write a Program to Print inverted Pyramid Pattern

Source Code:

PyramidRev.java

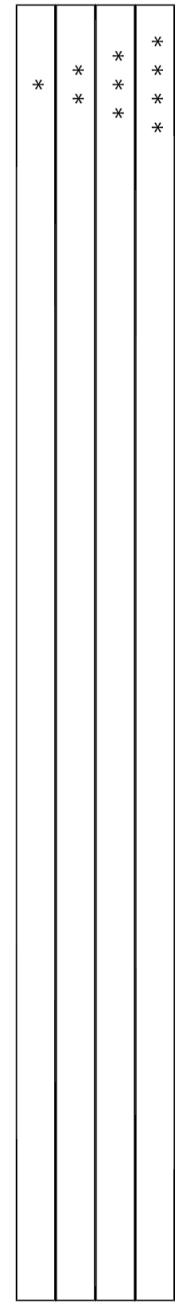
```
import java.util.Scanner;
class PyramidRev
{
   public static void main(String[] args)
   {
      Scanner scanner = new Scanner(System.in);
      System.out.print("Enter no of rows : ");
      int numRows = scanner.nextInt();
      if (numRows <= 0)
      {
         System.out. println("Number of rows must be a positive integer.");
         return;
      }
      for (int i = numRows; i >= 1; i--)
      {
         for (int j = 1; j <= numRows - i; j++)
         {
            System.out.print(" ");
         }
         for (int j = 1; j <= i ; j++) {
            System.out.print("* ");
         }
         System.out.println();
      }
   }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter no of rows : 5
* * * * *
* * * *
* * *
* *
*

Test Case - 2
User Output
Enter no of rows : 6
* * * * * *
* * * * *

ID: 224G1A0560
2022-2026-CSE-A
Srinivasa Ramanujan Institute of Technology



S.No: 8	Exp. Name: ***A program to print Pyramid Pattern***	Date:2023-09-16

Aim:

Write a Program to Print Pyramid Pattern

Source Code:

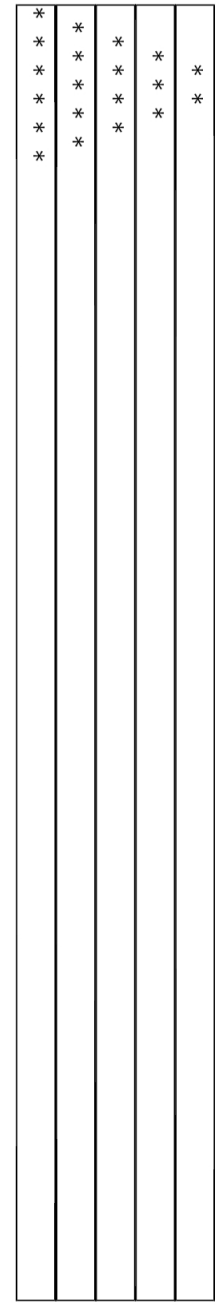
Pyramid.java

```
import java.util.Scanner;
class Pyramid
{
   public static void main(String[] args)
   {
      Scanner scanner = new Scanner(System.in);
      System.out.print("Enter no of rows : ");
      int numRows = scanner.nextInt();
      if (numRows <= 0)
      {
         System.out.println("Number of rows must be a positive integer.");
         return;
      }
      for (int i = 1; i <= numRows; i++)
      {
         for (int j = 1; j <= numRows - i; j++)
         {
            System.out.print(" ");
         }
         for (int j = 1; j <= i ; j++)
         {
            System.out.print("* ");
         }
         System.out.println();
      }
   }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter no of rows : 5
*
* *
* * *
* * * *
* * * * *

Test Case - 2
User Output
Enter no of rows : 6
*



S.No: 7	Exp. Name: ***A program to print Hollow Inverted Half Pyramid Pattern***	Date:2023-09-22

Aim:

Write a Program to Print Hollow Inverted half Pyramid Pattern

Source Code:

HollowHalfPyramidRev.java

```
import java.util.Scanner;
class HollowHalfPyramidRev
{
   public static void main(String[] args)
   {
      Scanner input = new Scanner(System.in);
      System.out.print("Enter no of rows : ");
      int n = input.nextInt();
      int i,j;
      for (i=1; i<=n;i++)
      {
         for (j=n;j>=i;j--)
         {
            if ((j==n)||(i==j)||(i==1))
            {
               System.out.print("* ");
            }
            else
            {
               System.out.print("  ");
            }
         }
         System.out.print("\n");
      }
   }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter no of rows : 5
* * * * *
* *
* *
* *
*

Test Case - 2
User Output
Enter no of rows : 3
* * *
* *

S.No: 6	Exp. Name: ***A program to print Inverted Half pyramin pattern***	Date:2023-09-16

Aim:

Write a Program to Print Inverted Half Pyramid Pattern

Source Code:

HalfPyramidRev.java

```
import java.util.Scanner;
class HalfPyramidRev
{
   public static void main(String[] args)
   {
      Scanner scanner = new Scanner(System.in);
      System.out.print("Enter no of rows : ");
      int numRows = scanner.nextInt();
      if (numRows <= 0)
      {
         System.out.println("Number of rows must be a positive integer.");
         return;
      }
      for (int i = numRows; i >= 1; i--)
      {
         for (int j = 1; j <= i; j++)
         {
            System.out.print("* ");
         }
         System.out.println();
      }
   }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter no of rows : 5
* * * * *
* * * *
* * *
* *
*

Test Case - 2
User Output
Enter no of rows : 3
* * *
* *
*