Pattern -3 => n >n

n=3

```
1 import java.io.*;
 2 import java.util.*;
4 public class Solution {
 6
      public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
 8
           int n = scn.nextInt();
 9
10
           for(int row = 1; row <= n; row++){
11
               //each row -- n stars
12
               for(int i = 0; i < n; i++){
13
                   System.out.print("*");
14
15
               System.out.println();
16
17
18 }
```

```
YOW = /
                  1 < 3
                 2±3
```

N=2.

```
80m = /
1 import java.io.*;
2 import java.util.*;
4 public class Solution {
6
7
8
      public static void main(String[] args) {
          Scanner scn = new Scanner(System.in);
          int n = scn.nextInt();
9
          for(int row = 1; row <= n; row++) {
10
             //each row -- n stars
11
12
               for(int i = 0; i < n; i++){
13
                  System.out.print("*");
14
15
              System.out.println();
16
17
18 }
```

GKSTR19 Pattern_4

Sample Input 0

5

Sample Output 0



.

```
\begin{cases}
1. & \underline{\text{rows}}. \rightarrow \underline{n} \\
2. & \underline{\text{vinitial}}. \rightarrow 1 \\
3. & \underline{\text{update}} \rightarrow 8 + n + 1
\end{cases}
```

```
Mar=x 2 34
```

```
1 import java.io.*;
 2 import java.util.*;
4 public class Solution {
 6
       public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
           int n = scn.nextInt();
 8
 9
10
           int star = 1;
11
           for(int row = 0; row < n; row++){</pre>
12
               for(int st = 0; st < star; st++){
                   System.out.print("* ");
13
14
15
               System.out.println();
16
               star++;
17
18
19 }
```

Pattern - 5

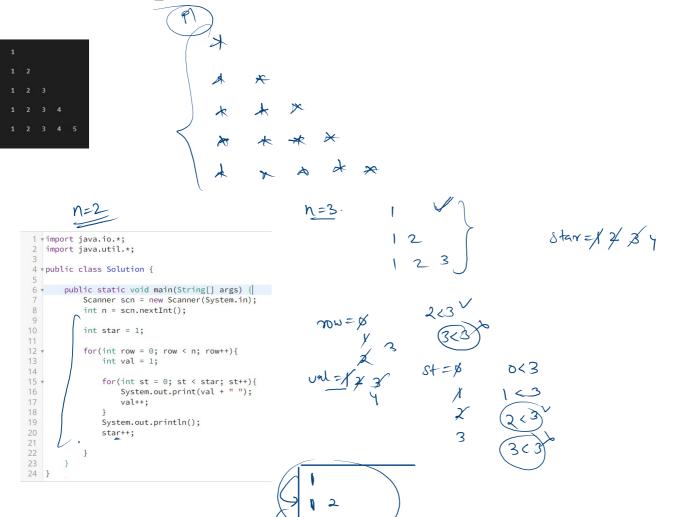
$$\times$$
 \times

$$\times$$
 \times \times

```
V = 3
 1 import java.io.*;
 2 import java.util.*;
4 public class Solution {
 6
       public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
           int n = scn.nextInt();
10
           int star = 1;
           int space = n-1;
11
12
13
           for(int row = 0; row < n; row++){</pre>
14
15
               for(int sp = 0; sp < space; sp++){</pre>
16
                   System.out.print(" ");
17
18
19
20
               for(int st = 0; st < star; st++){
21
                   System.out.print("*");
23
               System.out.println();
24
               star++;
25
               space--;
26
27
28 }
```

Star = 1 2 3 4 Space = 2 1 5 -1

GKSTR17 Pattern_2



Pattern 6 - Right triangle of 5 multiples

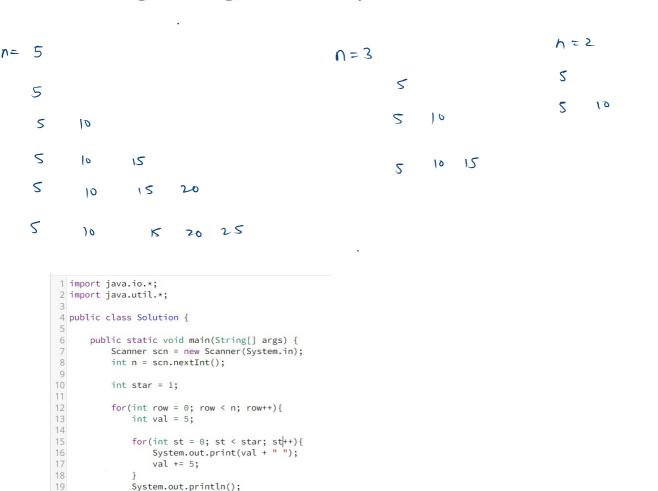
20

21 22 23

24 }

star++;

}



GKSTR24 Pattern_7_Pyramid

```
2 import java.util.*;
 4 public class Solution {
       public static void main(String[] args) {
 7
           Scanner scn = new Scanner(System.in);
 8
           int n = scn.nextInt();
 9
           int star = 1;
           int space = n-1;
12
           for(int row = 0; row < n; row++){
               for(int sp = 0; sp < space; sp++){</pre>
14
15
                   System.out.print(" ");
16
18
               for(int st = 0; st < star; st++){
19
                   System.out.print("*2");
21
22
               System.out.println();
23
               star++;
24
               space--;
25
26
27 }
```

N-20 27 Diamond. n= * * * * * * * * * * *** *

int

```
1 import java.io.*;
2 import java.util.*;
4 public class Solution {
5
 6
      public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
           int n = scn.nextInt();
9
           int star = 1;
10
           int space = n-1;
11
12
           for(int row = 0; row < (2*n-1); row++){
                                                       //work for 2n-1 times
13
               for(int sp = 0; sp < space; sp++){</pre>
14
                   System.out.print(" ");
15
16
               for(int st = 0; st < star; st++){
17
                    System.out.print("*");
18
               System.out.println();
19
20
               //update
21
               if(row < n-1){
23
                   star += 2;
24
                   space--;
25
               }else{
26
                   star -= 2;
27
                   space++;
28
29
30
```