

```
1 package project;
2
3 public class ButterflyPattern {
4     public static void main(String[] args) {
5         int n = 3;
6         // upper part
7         for (int i = 1; i <= n; i++) {
8             for (int j = 1; j <= i; j++) {
9                 System.out.print("*");
10            }
11            for (int j = 1; j <= 2 * (n - i); j++) {
12                System.out.print(" ");
13            }
14            for (int j = 1; j <= i; j++) {
15                System.out.print("*");
16            }
17            System.out.println();
18        }
19        //lower
20        for (int i = n; i >= 1; i--) {
21            for (int j = 1; j <= i; j++) {
22                System.out.print("*");
23            }
24            for (int j = 1; j <= 2 * (n - i); j++) {
25                System.out.print(" ");
26            }
27            for (int j = 1; j <= i; j++) {
28                System.out.print("*");
29            }
30            System.out.println();
31        }
32    }
33 }
```

<terminated> ButterflyPattern [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (May 15, 2024, 11:0

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

```
1 package project;
2
3 public class fullpyramid {
4     public static void main(String[] args) {
5         int n=3;
6         for (int row = 0; row < n; row++) {
7             for (int spa= 0; spa < n-row ; spa++) {
8                 System.out.print(" ");
9             }for(int star=0 ; star < ( 2 * row +1 ); star++) {
10                 System.out.print("*");
11
12             }System.out.println();
13         }
14         for (int row = n; row >=0; row--) {
15             for (int spa= 0; spa < n-row ; spa++) {
16                 System.out.print(" ");
17             }for(int star=0 ; star < ( 2 * row +1 ); star++) {
18                 System.out.print("*");
19
20             }System.out.println();
21         }
22     }
23 }
```

<terminated> fullpyramid [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (May 15, 2024, 11:21:32 AM)

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

```

1 package project;
2
3 public class HollowDiamond {
4     public static void main(String[] args) {
5         int rows = 5;
6         for (int i = 1; i <= rows; i++) {
7             for (int j = rows; j > i; j--) {
8                 System.out.print(" ");
9             }
10            for (int k = 1; k <= (2 * i - 1); k++) {
11                if (k == 1 || k == (2 * i - 1)) {
12                    System.out.print("**");
13                } else {
14                    System.out.print(" ");
15                }
16            }
17            System.out.println();
18        }
19        for (int i = rows - 1; i >= 1; i--) {
20            for (int j = rows; j > i; j--) {
21                System.out.print(" ");
22            }
23            for (int k = 1; k <= (2 * i - 1); k++) {
24                if (k == 1 || k == (2 * i - 1)) {
25                    System.out.print("**");
26                } else {
27                    System.out.print(" ");
28                }
29            }
30            System.out.println();
31        }
32    }
33 }
34
35

```



```

1 package project;
2
3 public class HallowPyramid {
4     public static void main(String[] args) {
5         int rows = 5;
6         for (int i = 1; i <= rows; i++) {
7             for (int j = rows; j > i; j--) {
8                 System.out.print(" ");
9             }
10            for (int k = 1; k <= (2 * i - 1); k++) {
11                if (k == 1 || k == (2 * i - 1) || i == rows) {
12                    System.out.print("*");
13                } else {
14                    System.out.print(" ");
15                }
16            }
17            System.out.println();
18        }
19    }
20 }
21

```

Problems @ Javadoc Declaration Console ×

<terminated> HallowPyramid [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (May 15

```

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

```

```
1 package project;
2
3 public class HourGlassPattern {
4     public static void main(String[] args) {
5         int n = 4;
6         // upper part
7         for (int i = n; i >= 1; i--) {
8             for (int j = n; j > i; j--) {
9                 System.out.print(" ");
10            }
11            for (int k = 1; k <= (2 * i - 1); k++) {
12                System.out.print("*");
13            }
14            System.out.println();
15        }
16        // lower part
17        for (int i = 2; i <= n; i++) {
18            for (int j = n; j > i; j--) {
19                System.out.print(" ");
20            }
21            for (int k = 1; k <= (2 * i - 1); k++) {
22                System.out.print("*");
23            }
24            System.out.println();
25        }
26    }
27 }
28
```

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

```
1 package project;
2
3 public class fullpyramid {
4     public static void main(String[] args) {
5         int n=5;
6         for (int row = 0; row < n; row++) {
7             for (int spa= 0; spa < n-row ; spa++) {
8                 System.out.print(" ");
9             }for(int star=0 ; star < ( 2 * row +1 ); star++) {
10                 System.out.print("*");
11
12             }System.out.println();
13         }
14     }
15 }
16
17 }
18
```

<terminated> fullpyramid [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (May 15, 2024, 11:10:34)

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

```

1 package project;
2
3 public class dowhileRight{
4     public static void main(String[] args) {
5         int row=5;
6         int i=0;
7         do {
8             int j=row-i;
9             do {
10                 System.out.print(" ");
11                 j--;
12             }while(j>=1);
13             int k=0;
14             do {
15                 System.out.print(" *");
16                 k++;
17             }while(k<=i);
18
19             System.out.println();
20             i++;
21         }while(i<row);
22     }
23 }

```

Problems @ Javadoc Declaration Console ×

<terminated> dowhileRight [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (May 15

```

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

```



```

3 public class Rectaangle {
4     public static void main(String[] args) {
5         int row=7;
6         int col=14;
7         int i=0;
8         while(i<row) {
9             int j=0;
10            while(j<col) {
11                if( i==0 || j==0 || i== row-1 || j==col-1) {
12                    System.out.print("*");
13                }
14                else {
15                    System.out.print(" ");
16                }
17                j++;
18            }System.out.println();
19            i++;
20        }
21    }
22
23 }
24

```

<terminated> Recta [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (May 15, 2024, 11:1

```

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

```



```

1 package project;
2
3 public class InvertedTriangle {
4
5     public static void main(String[] args) {
6         int row=5;
7         int i=0;
8         while(i<row) {
9             int j=5;
10            while(j>i) {
11                System.out.print(" ");
12                j--;
13            }System.out.println();
14            i++;
15        }
16    }
17
18 }

```

Problems @ Javadoc Declaration Console ×

<terminated> RTriangle [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (N

```

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

```

```
1 package project;
2
3 public class Xpattern {
4     public static void main(String[] args) {
5         int n = 5;
6         for (int i = 1; i <= n; i++) {
7             for (int j = 1; j <= n; j++) {
8                 if (j == i || j == (n - i + 1)) {
9                     System.out.print("*");
10                } else {
11                    System.out.print(" ");
12                }
13            }
14            System.out.println();
15        }
16    }
17 }
18
19
```

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