

```

package Pattern;
import java.util.*;
public class LeftIncreasingTriangle {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        int n=5;

        for(int i=1;i<=n;i++){
            for(int j=1;j<=i;j++){
                System.out.print("*");
            }
            System.out.println();
        }

    }

}
//*
//**
//***
//****
//*****

```

```

package Pattern;
import java.util.*;
public class LeftDecreasingTriangle {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        int n=5;

        for(int i=1;i<=n;i++){
            for(int j=n;j>=i;j--){
                System.out.print("*");
            }
            System.out.println();
        }

    }

}

```

```
}  
//*****  
//*****  
//***  
//**  
//*
```

```
package Pattern;  
import java.util.*;  
public class RightIncreasingTriangle {  
  
    public static void main(String[] args) {  
        // TODO Auto-generated method stub  
  
        int n=5;  
  
        for(int i=1;i<=n;i++){  
            for(int k=n;k>=i;k--){  
                System.out.print(" "); // space decrease  
            }  
            for(int j=1;j<=i;j++){  
                System.out.print("*"); // star increase  
            }  
            System.out.println();  
        }  
    }  
}
```

```
//      *  
//     **  
//    ***  
//   ****  
//  *****
```

```

package Pattern;
import java.util.*;
public class RightDecreasingTriangle {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        int n=5;

        for(int i=1;i<=n;i++){
            for(int k=1;k<=i;k++){
                System.out.print(" "); // space increase
            }
            for(int j=n;j>=i;j--){
                System.out.print("*"); // star decrease
            }
            System.out.println();
        }

    }

}
//*****
// ****
// ***
// **
// *

```

```

package Pattern;
import java.util.*;
public class LeftPascalsTriangle {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        int n=5;

        for(int i=1;i<=n;i++){
            for(int j=1;j<=i;j++){
                System.out.print("*");
            }
            System.out.println();
        }
    }
}

```

```
for(int i=1;i<=n;i++){
    for(int j=n-1;j>=i;j--){
        System.out.print("*");
    }
    System.out.println();
}
```

// *
 // **
 // ***
 // ****
 // *****
 // *****
 // ****
 // ***
 // **
 // *

```
package Pattern;
import java.util.*;
public class RightPascalsTriangle {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int n=5;

        for(int i=1;i<=n;i++){
            for(int k=n;k>=i;k--){
                System.out.print(" "); // space decrease
            }
            for(int j=1;j<=i;j++){
                System.out.print("*"); // star increase
            }
            System.out.println();
        }
    }
}
```

```

        for(int i=1;i<=n;i++){
            for(int k=1;k<=i;k++){
                System.out.print(" "); // space increase
            }
            for(int j=n-1;j>=i;j--){
                System.out.print("*");// star decrease
            }
            System.out.println();
        }

    }

}

//      *
//     **
//    ***
//   ****
//  *****
// *****
//  *****
//   ****
//    ***
//     **
//      *

```

```

package hollow;
import java.util.*;
public class SquareParallelBar {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        int n=5;

        for(int i=1;i<=n;i++){
            for(int j=1;j<=n;j++){
                if((j==1)||(j==n))
                    System.out.print("* ");
                else

```

```

        System.out.print(" ");
    }
    System.out.println();
}

}

}

//*      *
//*      *
//*      *
//*      *
//*      *

```

```

package hollow;
import java.util.*;
public class SquarePlus {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        int n=5;

        for(int i=1;i<=n;i++){
            for(int j=1;j<=n;j++){
                if((i==n/2+1)||(j==n/2+1))
                    System.out.print("* ");
                else
                    System.out.print(" ");
            }
            System.out.println();
        }

    }

}

//      *
//      *
//* * * * *
//      *
//      *

```

```

package hollow;
import java.util.*;

//DIAGONAL

public class CrossPattern {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        int n=5;

        for(int i=1;i<=n;i++){
            for(int j=1;j<=n;j++){
                if((i==j)|| (i+j==n+1))
                    System.out.print("* ");
                else
                    System.out.print("  ");
            }
            System.out.println();
        }

    }

}

//*      *
// *      *
//  *      *
//   *      *
//    *      *
//     *      *

```

```

package hollow;
import java.util.*;
public class HollowBox {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        int n=5;

        for(int i=1;i<=n;i++){
            for(int j=1;j<=n;j++){

```

```

        if((i==1)|| (j==1)|| (i==n)|| (j==n))
            System.out.print("*");
        else
            System.out.print(" ");
    }
    System.out.println();
}

}

}

//*****
//*      *
//*      *
//*      *
//*****

```

```

package hollow;
import java.util.*;
public class HollowIncreasingTriangle {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int n=5;

        for(int i=1;i<=n;i++){
            for(int j=1;j<=i;j++){
                if(i==n || j==1 || j==i)
                    System.out.print("*");
                else
                    System.out.print(" ");
            }
            System.out.println();
        }

    }

}

```



```

// *
// **
// * *
// *  *
// *****

```

```

package Pattern;
import java.util.*;
public class HillPattern {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int n=5;

        for(int i=1;i<=n;i++){
            //for(int k=n;k>=i;k--)
            for(int j=i;j<=n;j++){
                System.out.print(" "); // space decrease
            }
            for(int j=1;j<=i;j++){
                System.out.print("*"); // star increase
            }
            for(int j=1;j<=i;j++){
                System.out.print("*"); // star increase
            }
            System.out.println();
        }

    }
}

```

```

//      *
//     ***
//    *****
//   *****
//  *****
// *****

```

```

package Pattern;
import java.util.*;
public class ReverseHillPattern {

```

```

public static void main(String[] args) {
    // TODO Auto-generated method stub
    int n=5;

    for(int i=1;i<=n;i++){
        for(int k=1;k<=i;k++){
            System.out.print(" "); // space increase
        }
        //for(int j=n;j>=i;j--)
        for(int j=i;j<n;j++){
            System.out.print("*");// star decrease
        }
        for(int j=i;j<=n;j++){
            System.out.print("*");
        }
        System.out.println();
    }
}

//*****
// *****
//  *****
//   ***
//    *

```

```

package Pattern;
import java.util.*;
public class DiamondPattern {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int n=5;

        for(int i=1;i<n;i++){
            //for(int k=n;k>=i;k--)
            for(int j=i;j<=n;j++){
                System.out.print(" "); // space decrease
            }
            for(int j=1;j<i;j++){
                System.out.print("*");// star increase
            }
        }
    }
}

```

```

        for(int j=1;j<=i;j++){
            System.out.print("*");// star increase
        }
        System.out.println();

    }

    for(int i=1;i<=n;i++){
        for(int k=1;k<=i;k++){
            System.out.print(" "); // space increase
        }
        //for(int j=n;j>=i;j--)
        for(int j=i;j<=n;j++){
            System.out.print("*");// star decrease
        }

        for(int j=i;j<=n;j++){
            System.out.print("*");
        }
        System.out.println();
    }

}

//      *
//     ***
//    *****
//   ********
//  *********
// *****
//  *****
//   *****
//    ***
//     *

```