```java
package pattern2;

public class pttrn8 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int i,j;
        for(i=1;i<=5;i++)
        {
            for(j=1;j<=i;j++)

            {
                System.out.print(j+" ");
            }
            System.out.println();
        }
        for(i=4;i>=1;i--)
        {
            for(j=1;j<=i;j++)
            {
                System.out.print(j+" ");


            }
            System.out.println();
        }
    }
}
```

Output
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1

```java
package pattern2;
public class pttrn9 {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
```

```
    int i,j;
       for(i=1;i<=5;i++)
       {
            for(j=1;j<=i;j++)
            {
                    System.out.print(j);
            }
            for(int k=4;k>=i;k--)
            {
                    System.out.print("*");
            }
        System.out.println();
        }
}
}
```

Output

```
1****
12***
123**
1234*
12345
```

```
package pattern2;

public class pttrn10 {

        public static void main(String[] args) {
                // TODO Auto-generated method stub
  int i,j;
    //for upper pattern
  for (i=5;i>=1;i--)
  {
        for(j=1;j<=i;j++)
        {
          System.out.print(j+"");
        }
          System.out.println();
  }
     System.out.println();
    //for below pattern
   for(i=1;i<=5;i++)
   {
```

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

Output

```
12345
1234
123
12
1

1
12
123
1234
12345
```

```java
package pattern2;

public class pttrn11 {

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

        for(int i=1; i<=4; i++)
        {
            for(int j=3; j>=i; j--)
                {
            System.out.print(" ");
                }
            for(int k=i; k>=1; k--)
            {
                System.out.print(k);
            }
                for(int l=2; l<=i; l++)
                    {
                System.out.print(l);
```

```
                        }
                System.out.println();
        }
        for (int i=3; i>=1; i--)
        {
                for(int m=3;m>=i;m--)
                {
                        System.out.print(" ");
                }
                for(int k=i;k>=1;k--)
                {
                        System.out.print(k);
                }
                for(int l=2; l<=i; l++)
                {
                        System.out.print(l);
                }

        System.out.println();

        }
        }
}
```

Output

```
  1
 212
 32123
4321234
 32123
 212
  1
```