九九乘法表

```java
//九九乘法表

public class MulFor01 {
    //main
    public static void main(String[] args){
        int start = 1;
        int end = 9;
        for(int i = start; i <= end; i++){
            for(int j = start; j<= i; j++){
                System.out.print(j + " * " + i + " = " + i*j +"\t");
            }
            System.out.println();
        }
    }
}
```

####

计分程序

```java
import java.util.Scanner;


public class MulFor02 {
    //main
    public static void main(String[] agrs){
        //统计3个班成绩情况，每个班有5名同学，求出每个班的平均分和所有班级的平均分
        Scanner gradeScanner = new Scanner(System.in);
        int classNum = 3;
        int classStuNum = 5;
        int allClassSum = 0;
        int passNum = 0;
        double allClassAvg = 0;

        for (int i = 1; i<=classNum; i++){
            int sum = 0;
            double avg = 0;
            int grade = 0 ;
            System.out.println(i+"班成绩输入");
            for(int j = 1; j<= classStuNum; j++){
                System.out.println("请输入学号为"+j+"同学的成绩:");
                grade = gradeScanner.nextInt();
                sum += grade; //此班级总分
                //判断及格人数
                if(grade>=60){
                    passNum++;
                }
```

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            }

            allClassSum += sum; //所有班级总分
            avg = sum / classStuNum; //此班级的平均分
            System.out.println(i + "班的总成绩为: " + sum + "\n" + "平均成绩为:
"+avg);
        }
        allClassAvg = allClassSum / (classNum * classStuNum);
        System.out.println("所有班级的平均成绩为: " + allClassAvg);
        System.out.println("所有班级及格人数有: " + passNum);
    }
}
```

金字塔

```
//打印金字塔
import java.util.Scanner;

public class Stars {
    //main
    public static void main(String[] args){
        int start = 1;
        Scanner starsScanner = new Scanner(System.in);
        System.out.print("请输入金字塔的层数:");
        int totalLevel = starsScanner.nextInt();
        int space  = totalLevel;
        //实心金字塔
        // for (int i = start ; i <= totalLevel; i++){
        //  for (int x = 1; x < space; x++){
        //          System.out.print(" ");
        //  }
        //  space--;
        //  for (int j = start; j <= (2*i-1) ; j++ ) {
        //      System.out.print("*");
        //  }
        //  System.out.println();
        // }

        //空心金字塔
        for (int i = start ; i <= totalLevel; i++){
            for (int x = 1; x < space; x++){
                    System.out.print(" ");
            }
            space--;
            for (int j = start; j <= (2*i-1) ; j++ ) {
                //自己做的办法
                if(i == start || i == totalLevel){
                    System.out.print("*");
```

```
                }else{
                    System.out.print("*");
                    for (int k = 1 ; k<= (2*i-1)-2 ; k++ ){
                        System.out.print(" ");
                    }
                    System.out.print("*");
                    break;
                }
                //老师演示的
                // if (j == 1 || j == (2*i-1) || i == totalLevel){
                //  System.out.print("*");
                // }else{
                //  System.out.print(" ");
                // }
            }
            System.out.println();
        }
    }
}
```