```java
1    public class exp51{
2        public static void main(String[] args) {
3            int n = 5;
4            for (int i = 1; i <= n; i++) {
5                for (int j = i; j < n; j++) {
6                    System.out.print("  ");
7                }
8                for (int j = 1; j <= i; j++) {
9                    System.out.print("* ");
10               }
11               System.out.println();
12           }
13       }
14   }
```

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

```java
1    import java.util.Scanner;
2
3    public class exp52{
         Run main | Debug main
4        public static void main(String[] args) {
5            Scanner scanner = new Scanner(System.in);
6
7            System.out.print("Enter a number: ");
8            int number = scanner.nextInt();
9
10           int originalNumber = number;
11           int result = 0;
12           int digits = 0;
13
14           int temp = number;
15           while (temp != 0) {
16               digits++;
17               temp /= 10;
18           }
19
20           temp = number;
21           while (temp != 0) {
22               int digit = temp % 10;
23               result += Math.pow(digit, digits);
24               temp /= 10;
25           }

                                          Loading...
26
27           if (result == originalNumber) {
```

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Enter a number: 222
222 is not an Armstrong number.

```java
import java.util.Scanner;

public class exp53 {
    Run main | Debug main
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter a string: ");
        String input = scanner.nextLine();

        String normalizedInput = input.toLowerCase();

        int start = 0;
        int end = normalizedInput.length() - 1;
        boolean isPalindrome = true;

        while (start < end) {
            if (normalizedInput.charAt(start) != normalizedInput.c
                isPalindrome = false;
                break;
            }
            start++;
            end--;
        }

        if (isPalindrome) {
            System.out.println("\"" + input + "\" is a palindrome.
        } else {
```

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Enter a string: jothi
"jothi" is not a palindrome.