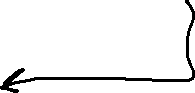
1. Print out the following pattern. The number inputted by the user represents the amount of stars shown on the middle line, as in here:

\*

\*\*



\*\*\*

\*\*

\*

1. Design a program that shows the length of any inputted String. Hint, Java already has a method for this in the String class.
2. Design a program that takes a String, and outputs the first three characters of it. Use [substring](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html#subSequence(int,%20int)). Remember that the first character of a String is considered the 0th index, followed by the 1st, 2nd, etc.
3. Design a program that displays a character at a random index using [charAt](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html#charAt(int)) (remember, this has to be between 0 and the length). Be sure to print out this character along with the randomly generated index.
4. Design a program that has a String containing your name. Find out how many e’s there are and print that out to the user. Be sure that this works for any name.