CSC 142
Assignment #1
(3 problems for 25 points)

1) Chapter 1, Exercise Question #5, page 55 (all page numbers are from the 3rd Edition of our textbook) – for 5 points
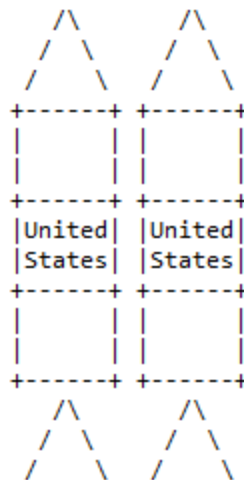
Write a complete Java program called MuchBetter that prints the following output:

A "quoted" String is
'much' better is you learn
The rules of "escape sequences."
Also, "" represents an empty String.
Don't forget: use \" instead of "!
' ' is not the same as "

2) Chapter 1, Exercise Question #11, page 56 – for 5 points (**be sure to answer both questions in this exercise; include these answers as comments in your code**).

Write a Java program called TwoRockets that generates the following output.
Use static methods to show structure and eliminate redundancy in your solution. Note that there are two rocket ships next to each other. What redundancy can you eliminate writing static methods? What redundancy cannot be eliminated?

```
    /\        /\
   /  \      /  \
  /    \    /    \
 +------+ +------+
 |      | |      |
 |      | |      |
 +------+ +------+
 |United| |United|
 |States| |States|
 +------+ +------+
 |      | |      |
 |      | |      |
 +------+ +------+
   /\        /\
  /  \      /  \
 /    \    /    \
```

3) Chapter 1, Programming Project #2 (slightly modified), page 60 – for 10 points

Sometimes we write similar letters to different people. For example, you might write to your parents to tell them about your classes, your friends, and your vacation plans; you might write to a friend about your relationships, your classes, and your hobbies; and you might write to your brother about your hobbies, your friends, and your vacation plans.

Write a program that prints out similar letters to three people of your choosing. Each letter should have at least one paragraph in common with each of the other two, but none of the letters should be identical to each other.

Your main program should have three method calls, one for each letter you are creating (for example, you could have methods named momLetter, friendLetter, dadLetter). Try to isolate repeated tasks into methods.

4) Reflections document (see below) – for 5 points
For this assignment, your reflections can be included as comments in your main file OR as a separate text file.

Style Guidelines:
For this assignment, you should not place any `println` statements in your `main` method (other than empty `println` statements to print blank lines). Instead of printing in `main`, use static methods, as described in the assignment instructions above.

General assignment requirements:

- **Reflections:** Reflect briefly on each program you write, as a comment at either the beginning or end of each main file. Comment on things like: how hard was the program and why? what did you learn from it? where did you need help? how long did it take to complete? what was the best part of the assignment and why? These reflections count towards a part of your assignment score.
- **Identification:** You must include a header comment with your name, this course number (CSC142), the date, the assignment number in every java file you write.
- **Compilation:** Source code (*.java) must compile in standard Java; Remember that you will receive very low score for programs that do not compile.
- **Online Submission:** Submit an electronic copy of all assignments via Canvas. You may submit on Canvas multiple times for any assignment till the time it is due - I will only grade the last (most recent) submission unless you request otherwise.
- **Style:** Always remember to use comments, indentation, spacing and descriptive variable names.

Following the abovementioned requirements, submit:

- 3 source code file(s) (*.java files) and (possibly) a separate text file.
- Place all of the above files in a folder (name it you name), zip it and attach the zipped folder when submitting.

Make sure you keep a copy of everything that you submit for your records, in case of disk failures and server crashes etc.