Lab 04 Numbers Squared and Rotated

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# Problem

In this lab, we have the user enter a 4 digit number that we will manipulate. In the first square, we will display the number, and then on the left hand side we will have the number go down. On the right we will have the number written upwards. On the bottom, the number will be reversed. For the second square, we will start with the number shifted 1 to the right, going positions 1 2 3 2. The number will then go down according to the original number on the left and up according to original number on the right. In the final square, we will start with the number shifted two place, going down according to the original number on the left and going up on the right.

# Solution

For this code, I first had the user input a 4 digit number and saved it as a string. Then following the methods above, I used the number.charAt(); function to find the necessary values to follow the pattern. For the first and last lines, I had to write out the positions as the input to the number.charAt function. This was then used to display the answer using the println function. This then displayed the 3 number squares corresponding.

# Implementation Problems Encountered

The only implementations is the lines where I printed out a string of values, the number came out as the addition of ASCII values. To fix this, I added “”+(numbers) to properly format the code

# Lab Report Questions

1)To get the 5th letter in a string I would use the method number.CharAt(); value with the input in the () being 4, as indexes start at 0 in programming

2) To get that string of the 3rd letter through the 8th letter inclusive, I would write a substring method using parameters of (2,). This requests values from index 2, or the 3rd letter, all the way to right before index 8, which is right before the 9th value in the string.