Lab 01:   Do Loops

Everything in this lab will utilize Do Loops

Do Loops are needed when the loop <u>must</u> happen at least once. They're perfect for sentinel-controlled loops that may have many iterations, but it will happen once. Scanners MUST be created before the Do Loop for tests to work.

1) Ask the user for a number from **0** to **9**. Then print out random integers from **0-9** inclusive until you hit that user's number. Also say how many numbers were generated. Also, fix the grammar. If it only looped once, it should say `"try"`.

    ```
    Enter a number from 0 to 9: 5
    1
    3
    5
    It took 3 tries to get your number.
    ```

    To create the random numbers: `(int) (Math.random() * 10)`

2) Go back to the previous unit and find the one where you asked the user for the password (Lab 3 #1 I think). Re-create it here, BUT everything should be in a Do Loop except for your counting variable and Boolean (if you used one).

    ```
    Enter Pin: 3752
    Incorrect Pin
    Enter Pin: 1234
    Access Granted
    ```

3) Keep asking the user for integers until they enter **0**. Then tell them the sum of their inputs. Everything should be in a Do Loop except the following: Scanner declaration, sum and input variable declaration, and final print statement.

    ```
    Enter an integer: 5
    Enter an integer: -2
    Enter an integer: 0
    The sum of your input is 3.
    ```