# IT 2045C Computer Programming II Prof. Tom Wulf Lab 9: Recursive File Lister Fall 2022

# 20 pts

The Java Files class will return a set of files for a given directory. These can be files or directories.

If we want to traverse the directory (as in a search or maintenance function like a backup) we create a recursive function that displays all the files at the current folder and recurses on any sub folders… the terminal condition is that we have a file which we display.

Create an IntelliJ project called **RecursiveLister** and put it under GitHub source control.   
  
Create a Java Swing GUI program that uses the JFileChooser to allow the user to select a directory on the system. Then use the recursive approach to list all the files within the chosen directory and any of its sub-directories. (Use a JTextArea ScrollPane to display the files.)  
  
Note that the entire hard drive will take hours to list so go with a smaller sub directory like the one for your project!

GUI:  
  
Start Button that displays the JFileChooser (Set it to only allow the user to pick directories)   
Quit Button  
JTextArea with JScrollPane for displaying the files.  
A title JLabel for you GUI.

Try for a decent look and feel.   
  
Submitting your work

1. Test your program thoroughly. **Include several screen shots that establish that your program works.**  Note, you might not want to try to list the entire drive! A white screen with a white screen

   Description automatically generated A screenshot of a computer

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   A screenshot of a computer

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2. Submit this file with your screen shots renamed as **LastnameFirstname \_Lab\_11.docx** (using your actual name) and and the URL link to your GitHub repo using the canvas assignments mechanism.