

CST 7284 – Lab 7

Due date: July 13, 2022

Challenge

Write a program that would prompt the user for a path to a file. Your program should open the file using a `BufferedInputStream` instance. It should extract the name of the file from the path (using example in slides), add the word “Encrypted” at the end of the filename and before the dot extension, like if the path passed in is:

`C:\courses\cst7284\lab7\image.jpg` Filename:

`image.jpg`

Encrypted file: `imageEncrypted.jpg`

Destination file: `C:\courses\cst7284\lab7\imageEncrypted.jpg`

Your program should «read» one byte at a time, add 7 to it and should “write” it back into the destination file.

Your program needs to be divided into an “encrypt” and “decrypt” methods where “encrypt” would read the input file, encrypt it by adding 7 to every byte read, and writes it back to the destination file.

Your “decrypt” method would take as input a path to the encrypted file, reads it, decrypt it by subtracting 7 and writes it back to a new destination file that would be in our example here: `imageDecrypted.jpg`.

You can have a method that would take care of renaming the filename. Another one that reads input files. Yet, another one too that writes to output files and so on ...

Let’s call this class `Encryption`.

What to submit: `Encryption.java`