

Project: File Encryption

Problem Description:

Suppose an encrypted file was created using the encoding/decoding scheme. Each letter is substituted by some other letter according to a given mapping as shown below.

```
String letters = "abcdefghijklmnopqrstuvwxyz";
```

```
String enc = "kngcadxsxbvfjhjtiumylzqropwe";
```

For example, every 'a' becomes a 'k' when encoding a text, and every 'k' becomes an 'a' when decoding. You will write a program, encode or decode a File, and then encodes or decodes the File using the mapping above. Capital letters are mapped the same way as the lower case letters above, but remain capitalized. For example, every 'A' becomes 'K' when encoding a file, and every 'K' becomes an 'A' when decoding. Numbers and other characters are not encoded and remain the same.

Write a program to read a file and encode the file to an encrypted file. And write a program to get an encrypted file and decode to original file. Your program should prompt the user to enter an input file name and an output file name

What should you do?

1. Ask for input file name/ output file name (encrypted file). The encrypt using above encode/decode.
2. Ask for encrypted file and decoded to original input file.

How you lose points:

- If your code does not follow Java coding standards regarding naming of classes, variables, methods, constants, etc.
- If you upload any zip. You must upload .java file and be on time.
- If your code is not formatted properly and I find it hard to read.
- If your code is not commented properly:
- Every class file should have a header comment that includes your name and assignment number and briefly documents what the program does.
- If there are known deficiencies with your program such as known problems or incomplete features, these should be clearly listed in the header comment.
- Every method should have a method header comment that documents what the method does, what its parameters are, and what it returns.
- Every complex block of code should have at least a line comment documenting that code's intent.
- If you change or add to the projects statements

– If your source code has print out statements you used for debugging or commented out code you used to try out ideas. Clean up your code before you submit. Do not leave clutter behind.