10. File Encryption Filter

File encryption is the science of writing the contents of a file in a secret code. Your encryption program should work like a filter, reading the contents of one file, modifying the data into a code, and then writing the coded contents out to a second file. The second file will be a version of the first file, but written in a secret code. Although there are complex encryption techniques, you should come up with a simple one of your own. For example, you could read the first file one character at a time, and add 10 to the character code of each character before it is written to the second file. \rightarrow Only write into **void main**

```
try {
                                                                     // Tên file đầu ra
  String outputContent = "MinhContent2.txt";
  FileWriter writer = new FileWriter(outputContent);
                                                                     // Tạo đối tượng FileWriter để ghi vào file
                                                             // Tên file đầu vào > tạo đối tượng để đọc file
  String inputContent = "MinhContent.txt";
  File inputFile = new File(inputContent);
                                                             // Tao đối tương Scanner để đọc
  Scanner inputScanner = new Scanner(inputFile);
  while ( inputScanner.hasNext() ) {
     String currentLine = inputScanner.nextLine();
     String encryption = "";
                                                              // Chuỗi chứa nôi dung mã hoá
     for (int i = 0; i < \text{currentLine.length}(); i++) {
                                                                       // Mã hoá
       encryption += (char) (currentLine.charAt(i) + 10);
     writer.write(encryption + System.lineSeparator());
                                                                               // Chuyển vào file đầu ra
  inputScanner.close();
  writer.close();
} catch (IOException a) {
  System.out.println( "Có lỗi: " + a);
    DONE
var outputContent2 = "MinhContent2.txt";
                                                                     // Đầu ra không có mã hoá
try ( FileWriter writer = new FileWriter( outputContent2 , true)) {
  writer.write("John Henry");
  writer.write("This is my name: Minh vip pro");
  System.out.println("successfully to file: " + outputContent2);
} catch ( IOException a ) {
  System.out.println("Có lỗi r: " + a);
```

11. File Decryption Filter

}

Write a program that decrypts the file produced by the program. The decryption program should read the contents of the coded file, restore the data to its original state, and write it to another file. \rightarrow Only write void main

```
try {
  String outputContent = "MinhContent3.txt";
                                                             // Tên file đầu ra.
                                                                     // Create đối tượng để ghi vào file.
  FileWriter writer = new FileWriter(outputContent);
                                                             // Tên file đầu vào --> Tao đối tương
  String inputContent = "MinhContent2.txt";
  File inputFile = new File(inputContent);
  Scanner inputScanner = new Scanner(inputFile);
  while ( inputScanner.hasNext() ) {
     String currentLine = inputScanner.nextLine();
     String encryption = "";
     // Core : Mã hoá
     for (int i = 0; i < currentLine.length(); i++) {
       encryption += (char) (currentLine.charAt(i) - 10);
     writer.write(encryption + System.lineSeparator());
                                                                       // chuyển vào file đầu ra
  inputScanner.close();
  writer.close();
} catch ( IOException a ) {
  System.out.println( "Co loi kia " + a.getMessage() );
```