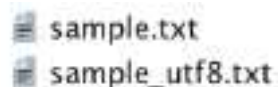# CS209 Practice2

Question 1

Please write a program named "CharsetConvertor" that converts a file to a specified encoding.

If run the command:

```
java  CharsetConvertor sample.txt gb18030 utf8
```

Then generate the target file in the same directory as the original file. If the original filename is **sample.txt,** the target filename is **sample_utf8.txt.**

📄 sample.txt
📄 sample_utf8.txt

Question 2

Given some files with an unknown extension or mislabeled name. Assuming that these files are normal, non-empty files, how do you determine what type of files they are?

You can try to use the file header to help determine what type the file is.

Three files are given now. Please analyze their types according to the following table

File header(Hex)	File Type
89504e47	png
504b0304	zip or jar
cafebabe	class

If run the command:

```
java  FileTypeParser HelloWorld
```

Output:

```
Filename:HelloWorld
File Header(Hex):[ca, fe, ba, be]
```

File Type: class

Evaluation Criteria:

The practice will be checked on this to the next next lab class(**Mar.9**) by teachers or SAs. What will be tested:

1. That you understand every line of your own code, not just copy from somewhere

2. That your program compiles correctly (javac)

3. Correctness of the program logic

4. That the result is obtained in a reasonable time

This practice will contribute 1 mark to your overall grade. Late submissions within 2 weeks after the deadline （Mar.9）will incur a 20% penalty, meaning that you can only get 80% of the score.