Lab 9 Introduction to Linux and special character

1. Given a folder which contains three fastq files. Write a script question1.bash that print a number of lines in each file and a total number of lines in all three files in a new file named linecount.txt located in a new folder named "results". Then extract the third and fourth read of each file into a new file called sample1_r34.fastq, sample2_r34.fastq, sample3_r34.fastq, respectively.

Example

```
$ ./question.bash
$ cd results
$ cat linecount.txt
sample1.fastq 100
sample2.fastq 80
sample3.fastq 40
Total 220
$ cd ..
$ ls
question1.bash  sample1.fastq     sample2.fastq     sample3.fastq
results         sample1_r34.fastq  sample2_r34.fastq  sample3_r34.fastq
```

2. Given a patient's information file which has four columns: ID, Name, Surname, Province, separated by tab. Write a command to extract only patients who lives in Bangkok and sort the output file by firstname and lastname and output results in a file called bangkokpatient.txt

Example

```
HN00003 Abby    Hayes   Bangkok
HN00002 Jack    Fridtzer        Bangkok
HN00001 Jack    Makowski        Bangkok
HN00006 Mathew  Deans   Bangkok
```