Observations:

The corpus contains a lot of files containing the given keywords and not just 23.

1) Initially searching the corpus for the files with the given keywords yields the following results:

```
CHE
                        each keyword:
         flying disc:
disc: 11591
         saucer:
                  329
         extraterrestrial
                            craft:
          lying saucer: 89
No of files containing each keyword:
        UFO: 121
        flying disc: 6 disc: 989
        saucer: 14
        xtraterrestrial
                            craft:
         lying saucer:
                         9
```

2) Refining the search to remove the words that could be substrings in some other word, a space is appended before and after the keyword. This reduces the number of files containing keywords by pretty big number.

```
Keyword(s) used: UFO, flying disc, disc, saucer, extraterrestrial craft, flying saucer, space ship, space craft, air ship, phantom, space probe
No of files processed: 2067
No of files containing keyword(s): 123
No of occurrences of each keyword:

UFO: 156
flying disc: 8
    disc: 70
    saucer: 88
    extraterrestrial craft: 0
    flying saucer: 15
    space ship: 4
    space craft: 3
    air ship: 0
    phantom: 1
    space probe: 0
No of files containing each keyword:

UFO: 65
flying disc: 3
    disc: 34
    saucer: 8
    extraterrestrial craft: 0
flying saucer: 6
    space ship: 3
    space craft: 3
    air ship: 0
    phantom: 1
    space probe: 0
```

3) Changing the original String and the keywords to be searched to lower case and then searching the corpus again increases the counts of a few results and keeps others unchanged. The results are as shown below:

```
Keyword(s) used: UFO, flying disc, disc, saucer, extraterrestrial craft, flying saucer, space ship, space craft, air ship, phantom, space probe
No of files processed: 2067
No of files containing keyword(s): 120
No of occurrences of each keyword:

UFO: 158
    flying disc: 15
    disc: 13
    saucer: 120
    extraterrestrial craft: 0
    flying saucer: 30
    space ship: 4
    space craft: 3
    air ship: 0
    phantom: 1
    space probe: 0
No of files containing each keyword:

UFO: 65
    flying disc: 4
    disc: 55
    saucer: 8
    extraterrestrial craft: 0
    flying saucer: 6
    space ship: 3
    space craft: 3
    air ship: 0
    phantom: 1
    space probe: 0
```

Notes on Tika:

Apache Tika is fairly easy to use and good examples are available to understand how to implement it. It is a great tool that compiles