

JAC444 Workshop 8: Thread Programming

Note: You will not receive any marks for doing this workshop.

Multiple Threads Without Data Sharing:

Create a multi-threaded application that uses threads to search the following two-dimensional array of strings:

```
String [][] data = {  
    { "java", "I love java", "c++", "python" },  
    { "c programs", "cookies", "java developers", "oops"},  
    { "john", "doe", "mary", "mark holmes"},  
    { "hello java java", "byebye", "java again?", "what?"},  
    { "toronto", "montreal", "quebec city", "calgary"}  
};
```

The main method (not the threads) in the application produces the following output:

java: I love java:

java developers:

hello java java: java again?:

total: 5

Notes

1. The search word is "java". The value of total is the total number of strings that contain the search word.
2. Use an ArrayList object to store the strings that contain the search word.
3. Declare the search word as a static variable in a Java class.