**Write up**

1. **A CodeSkulptor URL containing the contents of your hw5.py file**
2. **The top 30 words in "rice\_university.xml"**
3. the:615
4. and:341
5. of:299
6. in:257
7. rice:190
8. a:173
9. to:159
10. for:126
11. was:78
12. as:74
13. on:67
14. is:65
15. by:64
16. university:63
17. campus:58
18. students:54
19. at:45
20. its:43
21. with:40
22. research:38
23. first:37
24. student:36
25. rice's:35
26. are:35
27. has:33
28. center:32
29. that:30
30. colleges:30
31. an:27
32. which:26

**The 5 nearest neighbors of Rice University are:**

**University of Southern California**

**University of Michigan**

**Trinity University (Texas)**

**University of Florida**

**Columbia University**

the:612

in:302

of:291

and:231

to:166

slavery:156

a:83

was:81

by:74

as:68

slaves:59

for:47

slave:44

that:41

it:41

on:40

were:38

states:38

abolition:36

from:32

with:30

be:27

abolished:26

or:25

british:24

united:24

not:24

trade:24

had:24

free:23

**The 5 nearest neighbors of Abolitionism are:**

**Slavery**

**American Civil War**

**History of France**

**History of Israel**

**History of the Netherlands**

**3. With experience in file operations and data structures and primitive data types such as lists, dictionaries and tuples alongside strings, integers and floats respectively, the algorithms became easier stepwise and each step could lead to the other and build up to the required results.**

**I had to use an external tool to test my regex expression** [**https://regexr.com/**](https://regexr.com/) **and as most would return the right match, the test would fail due to text formatting or some other expression that my regex didn’t cover.**

**It was quite a challenge dealing with warnings from my syntax highlighting tool but since they were made known, I was able to rectify as much as possible.**

**I have implemented the algorithms with as simple methods as I could by watching the best coding practices and using techniques such as list compressions and lambda functions where possible.**

**I am able to teach all these concepts as I have used to my best knowledge for the implementation.**