RESULT ASSIGNMENT 1

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| --- | --- |
| USN | NAME |
| 01FB15ECS354 | Vishal Krishna Kumar P |
| 01FB15ECS328 | Tvarita Jain |

ANALYSIS & SUMMARY :-

Using inverted index structure which also stores the positions of the words is pretty costly in terms of both space and time, but the trade-off with respect to executing queries 4, 5 and 6 which includes phrase matching would considerably be worth it. The time taken to execute these queries on an inverted index which just stores the document ID of the word would prove to be significantly higher than using inverted index structure with positions stored, hence it is relatively faster to do queries which require positions of the word.

Query for any AND any type : snake AND frog

O/P:

1 : C:\Users\Tvarita Jain\Inverted-index\Frogs that rode a Snake.txt

4 : C:\Users\Tvarita Jain\Inverted-index\The Snake and The Foolish Frogs.txt

Query for any OR any type: snake OR frog

O/P:

1 : C:\Users\Tvarita Jain\Inverted-index\Frogs that rode a Snake.txt

2 : C:\Users\Tvarita Jain\Inverted-index\The Greedy Cobra and the King of Frogs.txt

4 : C:\Users\Tvarita Jain\Inverted-index\The Snake and The Foolish Frogs.txt

5 : C:\Users\Tvarita Jain\Inverted-index\The Tale of Two Snakes.txt

Query for a string: snake

O/P:

1 : C:\Users\Tvarita Jain\Inverted-index\Frogs that rode a Snake.txt

4 : C:\Users\Tvarita Jain\Inverted-index\The Snake and The Foolish Frogs.txt

5 : C:\Users\Tvarita Jain\Inverted-index\The Tale of Two Snakes.txt

Query for a subsequence: There was a

O/P:

3 : C:\Users\Tvarita Jain\Inverted-index\The Old Man, his Young Wife and The Thief.txt

5 : C:\Users\Tvarita Jain\Inverted-index\The Tale of Two Snakes.txt

6 : C:\Users\Tvarita Jain\Inverted-index\The War of Crows and Owls.txt

7 : C:\Users\Tvarita Jain\Inverted-index\The Wedding of the Mouse.txt

Query for a subsequence AND a subsequence: There was a AND One day

O/P

5 : C:\Users\Tvarita Jain\Inverted-index\The Tale of Two Snakes.txt

7 : C:\Users\Tvarita Jain\Inverted-index\The Wedding of the Mouse.txt

Query for a distance count between two words : why /2 you

O/P

1 : C:\Users\Tvarita Jain\Inverted-index\Frogs that rode a Snake.txt

2 : C:\Users\Tvarita Jain\Inverted-index\The Greedy Cobra and the King of Frogs.txt

5 : C:\Users\Tvarita Jain\Inverted-index\The Tale of Two Snake.txt

Query for a distance count between two words:proved /2 entertainer

O/P

1 : C:\Users\Tvarita Jain\Inverted-index\Frogs that rode a Snake.txt

