School of Computer Science

COMP 8547 Advanced Computing Concepts
Winter 2025
Milestone Report I

1. Group No (e.g. Group 1):

Group 8

2. Group Name (please specify your own name for the group, otherwise type N/A):
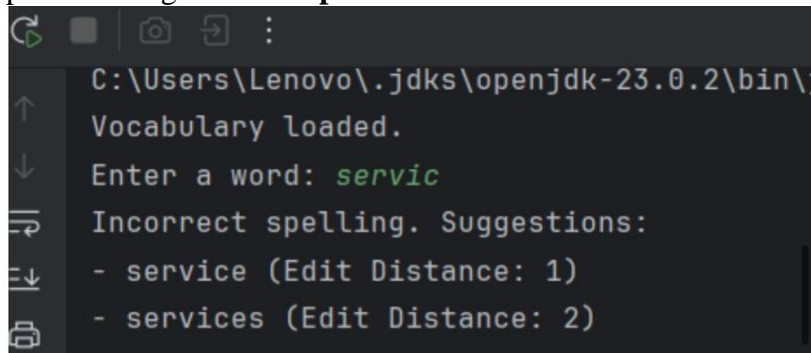
Nimbus

3. Team lead:

Aleena Ali Azeem

4. Variant chosen (please specify your variant number and the task):

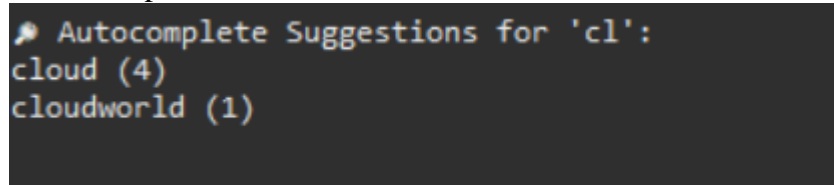**Cloud Storage Service Analysis**

5. Features you have already developed (please specify student names and features they have already developed along with screenshots of those features):

1. Spell checking – **Simranpreet**


```
C:\Users\Lenovo\.jdks\openjdk-23.0.2\bin\j
Vocabulary loaded.
Enter a word: servic
Incorrect spelling. Suggestions:
- service (Edit Distance: 1)
- services (Edit Distance: 2)
```
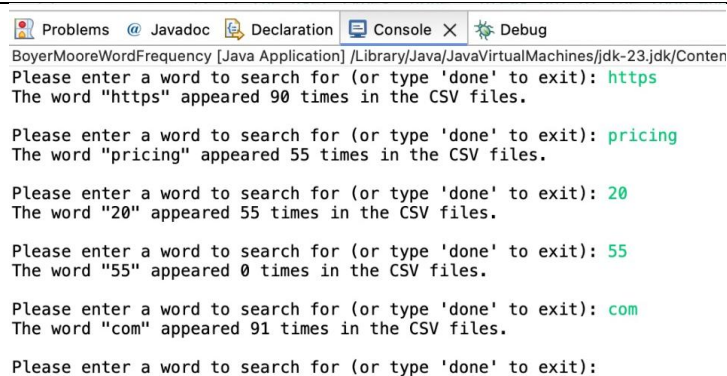
2. Word completion - **Aleena Ali Azeem**


```
Autocomplete Suggestions for 'cl':
cloud (4)
cloudworld (1)
```

3.
4. Word Frequency - **SAI HARINATH REDDY YELLURI**

```
Problems  @ Javadoc  Declaration  Console ✕  Debug
BoyerMooreWordFrequency [Java Application] /Library/Java/JavaVirtualMachines/jdk-23.jdk/Conten
Please enter a word to search for (or type 'done' to exit): https
The word "https" appeared 90 times in the CSV files.

Please enter a word to search for (or type 'done' to exit): pricing
The word "pricing" appeared 55 times in the CSV files.

Please enter a word to search for (or type 'done' to exit): 20
The word "20" appeared 55 times in the CSV files.

Please enter a word to search for (or type 'done' to exit): 55
The word "55" appeared 0 times in the CSV files.

Please enter a word to search for (or type 'done' to exit): com
The word "com" appeared 91 times in the CSV files.

Please enter a word to search for (or type 'done' to exit):
```

5. Search Frequency - **VAMSI KRISHNA NALLANI**
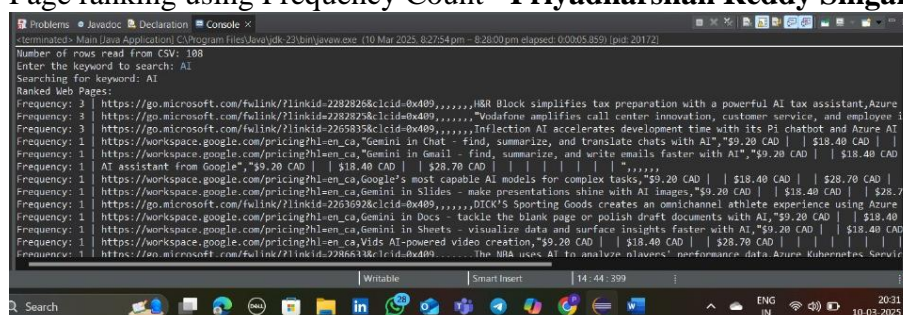


```
Problems  @ Javadoc  Declaration  Console ✕
<terminated> KMPSearchTracker [Java Application] /Library/Java/JavaVirtualMachines/jdk-23.jdk/Contents/I
Search Frequency: 1
Enter a word to search (or type 'exit' to quit): gemini
Occurrences: 12
Search Frequency: 1
Enter a word to search (or type 'exit' to quit): dropbox
Occurrences: 0
Search Frequency: 1
Enter a word to search (or type 'exit' to quit): chat
Occurrences: 3
Search Frequency: 1
Enter a word to search (or type 'exit' to quit): hardware
Occurrences: 1
Search Frequency: 1
Enter a word to search (or type 'exit' to quit): applications
Occurrences: 1
Search Frequency: 1
Enter a word to search (or type 'exit' to quit): apps
Occurrences: 1
Search Frequency: 1
Enter a word to search (or type 'exit' to quit): calender
Occurrences: 0
Search Frequency: 1
Enter a word to search (or type 'exit' to quit): docs
Occurrences: 3
Search Frequency: 1
Enter a word to search (or type 'exit' to quit): appsheet
Occurrences: 1
Search Frequency: 1
Enter a word to search (or type 'exit' to quit): exit
```

6. Page ranking using Frequency Count - **Priyadharshan Reddy Singareddi Gari**

6. What data structures/algorithms have you used:

Please specify algorithms and data structures you have already used to implement the features specified in p.5

1. Spell checking using trie and Edit Distance algorithm – **Simranpreet**
2. Word completion method using trie - **Aleena Ali Azeem**
3. Count the frequency of the word using heap sort algorithm - **SAI HARINATH REDDY YELLURI**
4. Search Frequency using KMP algorithm - **VAMSI KRISHNA NALLANI**
5. Page ranking using Frequency Count boyer-Moore Algorithm - **Priyadharshan Reddy Singareddi Gari**

7. Do you or any members of your team currently have any issues regarding the project?

None so far

8. Are you planning to defend your project during Week 11 or Week 12?

Week 11

9. Are you or any members of your team planning to participate in the CS Demo Day (April 4, 2025)?

Yes we are planning to display our project in CS Demo Day

Please sign this form (each team member signs the form by typing his/her name):

I, _____Aleena Ali Azeem_____ confirm that I have read,
First name, last name

understood, and agreed to the information provided above.

I, _____Simranpreet Kaur_____ confirm that I have read,
First name, last name

understood, and agreed to the information provided above.

I, _____Priyadharshan Reddy Singareddi Gari_____ confirm that I have read,
First name, last name

understood, and agreed to the information provided above.

I, _____Sai Harinath Reddy Yelluri_____ confirm that I have read,
First name, last name

understood, and agreed to the information provided above.

I, _____Vamsi Krishna Nallani_____ confirm that I have read,
First name, last name

understood, and agreed to the information provided above.