



**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:**

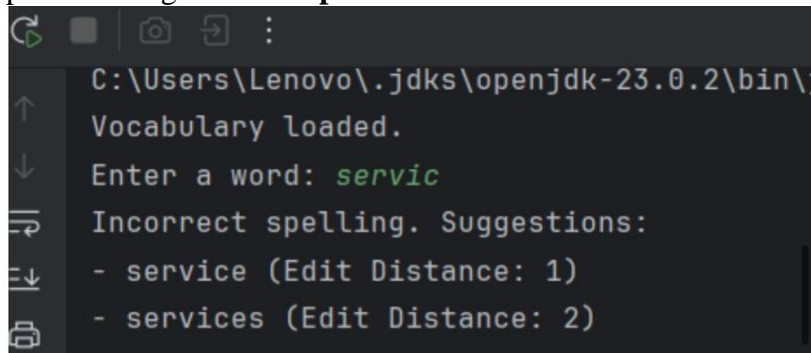
Aleena Ali Azeem

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

Cloud Storage Service Analysis

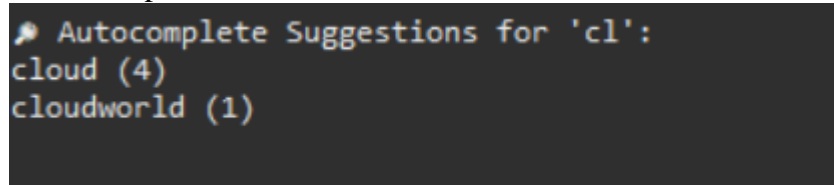
**5. Features you have already developed** (please specify student names and features they have already developed along with screenshots of those features):

1. Spell checking – **Simranpreet**



```
C:\Users\Lenovo\.jdk\openjdk-23.0.2\bin\  
Vocabulary loaded.  
Enter a word: servic  
Incorrect spelling. Suggestions:  
- service (Edit Distance: 1)  
- services (Edit Distance: 2)
```

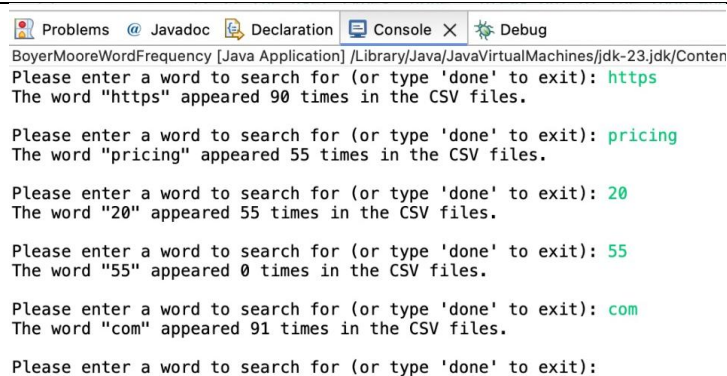
2. Word completion - **Aleena Ali Azeem**



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

3.

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



```

Problems @ Javadoc Declaration Console X Debug
BoyerMooreWordFrequency [Java Application] /Library/Java/JavaVirtualMachines/jdk-23.jdk/Content
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

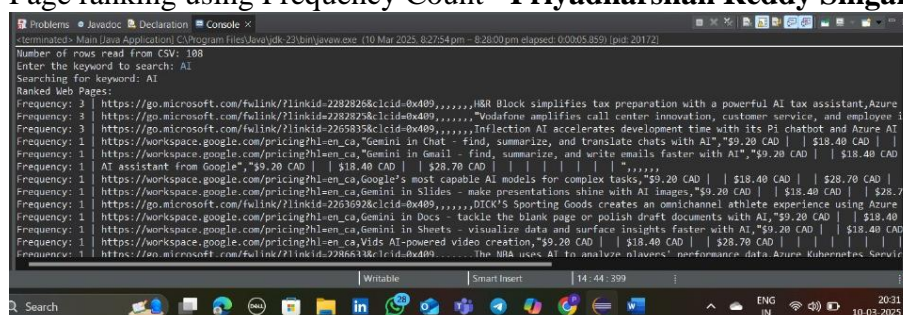


```

Problems @ Javadoc Declaration Console X
<terminated> KMPSearchTracker [Java Application] /Library/Java/JavaVirtualMachines/jdk-23.jdk/Contents/
Search Frequency:
Enter a word to search (or type 'exit' to quit): genini
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): calendar
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



```

Problems @ Javadoc Declaration Console X
<terminated> Main [Java Application] C:\Program Files\Java\jdk-23\bin\javaw.exe (10 Mar 2025, 8:27:54pm - 8:28:00pm elapsed: 0:00:05.859) (pid: 20172)
Number of rows read from CSV: 108
Enter the keyword to search: AI
Searching for keyword: AI
Ranked Web Pages:
Frequency: 3 | https://go.microsoft.com/fwlink/?linkid=228292&clcid=0x409.....NBR Block simplifies tax preparation with a powerful AI tax assistant,Azure
Frequency: 3 | https://go.microsoft.com/fwlink/?linkid=228292&clcid=0x409.....Verdara amplifies call center innovation, customer service, and employee i
Frequency: 3 | https://go.microsoft.com/fwlink/?linkid=226583&clcid=0x409.....Inflection AI accelerates development time with its Pi chatbot and Azure AI
Frequency: 1 | https://workspace.google.com/pricing?hl=en-ca,Gemini in Chat - find, summarize, and translate chats with AI,"$9.20 CAD | | $18.40 CAD | |
Frequency: 1 | https://workspace.google.com/pricing?hl=en-ca,Gemini in Gmail - find, summarize, and write emails faster with AI,"$9.20 CAD | | $18.40 CAD | |
Frequency: 1 | AI Assistant from Google*,"$9.20 CAD | | $18.40 CAD | | $28.70 CAD | | | | | | *****
Frequency: 1 | https://workspace.google.com/pricing?hl=en-ca,Google's most capable AI models for complex tasks,"$9.20 CAD | | $18.40 CAD | | $28.70 CAD | |
Frequency: 1 | https://workspace.google.com/pricing?hl=en-ca,Gemini in Slides - make presentations shine with AI images,"$9.20 CAD | | $18.40 CAD | | $28.70 CAD | |
Frequency: 1 | https://go.microsoft.com/fwlink/?linkid=226369&clcid=0x409.....DICK'S Sporting Goods creates an omnichannel athlete experience using Azure
Frequency: 1 | https://workspace.google.com/pricing?hl=en-ca,Gemini in Docs - tackle the blank page or polish draft documents with AI,"$9.20 CAD | | $18.40 CAD | |
Frequency: 1 | https://workspace.google.com/pricing?hl=en-ca,Gemini in Sheets - visualize data and surface insights faster with AI,"$9.20 CAD | | $18.40 CAD | |
Frequency: 1 | https://workspace.google.com/pricing?hl=en-ca,Vids AI-powered video creation,"$9.20 CAD | | $18.40 CAD | | $28.70 CAD | | | | | |
Frequency: 1 | https://go.microsoft.com/fwlink/?linkid=228663&clcid=0x409.....The NBA uses AI to analyze players' performance data Azure Kubernetes Service

```

## 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.